

WB/M1/82/2 Vol. 2

BRITISH GEOLOGICAL SURVEY  
MARINE GEOLOGY RESEARCH PROGRAMME

MARINE REPORT 82/2

COMMERCIAL IN CONFIDENCE

GEOLOGICAL RESULTS OF BOREHOLES DRILLED ON  
THE SOUTHERN UNITED KINGDOM CONTINENTAL SHELF  
BY THE INSTITUTE OF GEOLOGICAL SCIENCES

1969 - 1982

M. Parkin and A. Crosby

Vol 2 of 3

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Nicker Hill  
Keyworth  
Nottingham NG12 5GG

Tel: 06077 6111  
Telex: 378173 BGSKEY G  
Fax: 06077 6602

June 1986

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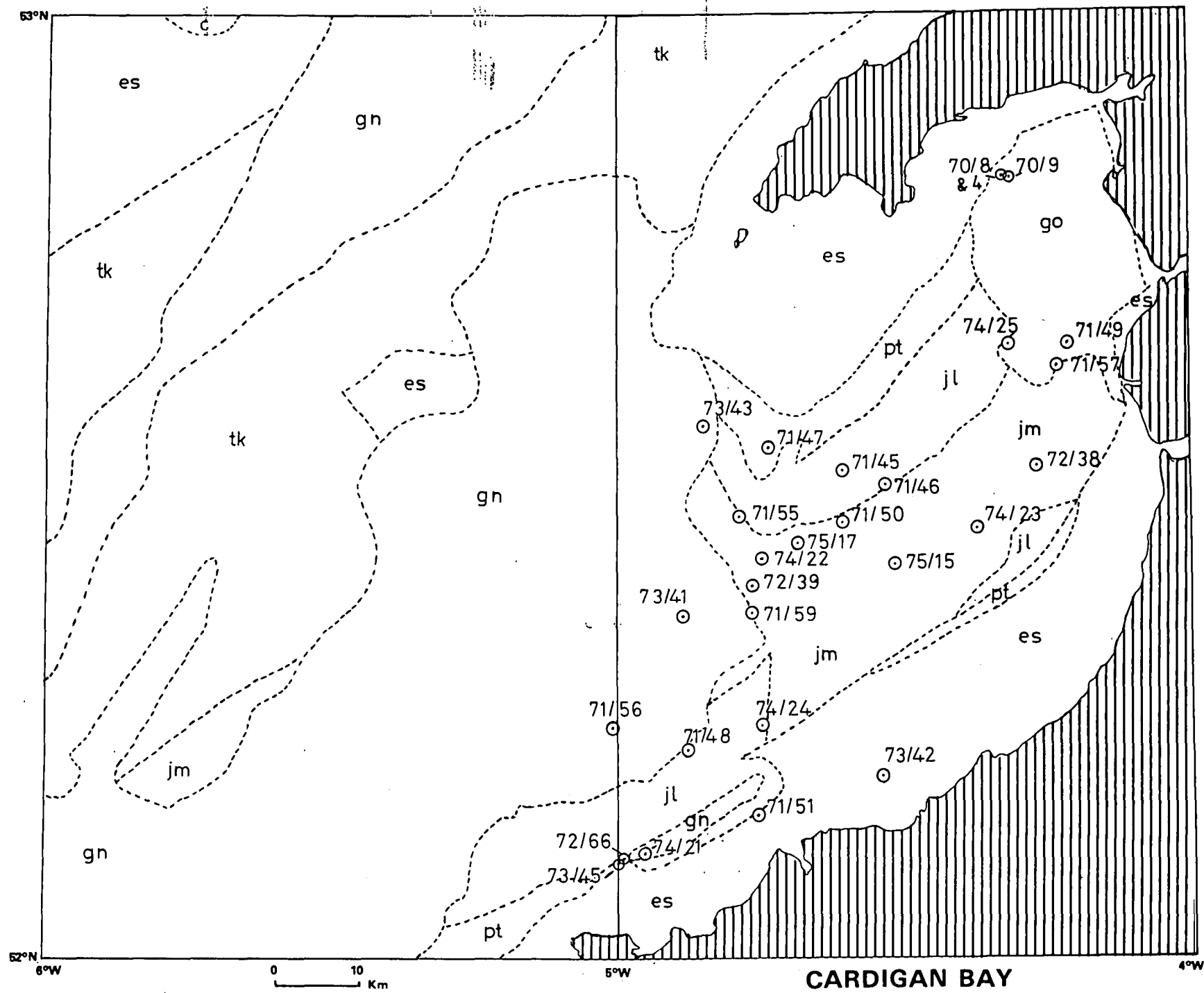
**BOREHOLES ON THE WESTERN CONTINENTAL SHELF,  
INCLUDING CARDIGAN BAY, BRISTOL CHANNEL AND**

**CELTIC SEA**

**1 : 250,000 GEOLOGY MAPS**

**CARDIGAN BAY  
NYMPHE BANK  
LUNDY  
BRISTOL CHANNEL  
HAIG FRAS**

fig 7



Borehole No <b>70/4</b>			Area <b>CARDIGAN BAY</b>			Block No <b>107 - 9</b>			
Latitude <b>52° 49.13' N</b>				IGS REG. NO. <b>52/-05/132</b>					
Longitude <b>04° 19.76' W</b>				Water Depth <b>22 m</b>		Rig <b>WHITETHORN</b>			
Other Position Fixing Methods				Objectives <b>STRATIGRAPHIC</b>					
RADAR RANGING				Spud Date <b>15-9-70</b> Completion Date <b>17-9-70</b>					
DECCA: Red. FO.27, Green D44.26 Purple A52.14				Status Completed		Final Depth bs.b. <b>61.50m</b>			
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
<b>QUATERNARY</b>			6			Sand, with shell fragments			
			6			Sand, silty			
		10							
						Sand, with traces of clay.			
		20							
						Sand, silty.			
		30				Sand, fine,			
						Sand, silty.			
		40				Clay, soft, laminated.			
						Boulder Clay, brown			
			▽						
			▽						
		50	▽						

**INSTITUTE OF GEOLOGICAL SCIENCES**

AREA **CARDIGAN BAY**



**SUMMARISED BOREHOLE LOG**

Ref. <b>52/-05/132</b>	Author <b>AC</b>
BH. <b>70/4</b>	

INSTITUTE OF GEOLOGICAL SCIENCES	
AREA CARDIGAN BAY	
SUMMARISED BOREHOLE LOG	
Ref. 52/-05/132	Author AC
BH. 70/4	

Borehole No	70 / 8	Area	CARDIGAN BAY	Block No	107 - 9
Latitude	52° 49.25 N	I.G.S. regd No	52/05/99		
Longitude	4° 19.66 W	Water Depth	21m	Rig	Whitethorn
Other Position Fixing Methods		Objectives	Stratigraphic		
Radar Ranging		Spud Date	8.10.70	Completion Date	10.10.70
Dacca red FO.21 green D44.21 purple A52.08		Status Completed	Final Depth bs.b. 102.50m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
P L E I S T O C E N E A N D R E C E N T									Open hole to 60m Rock bit and shell auger to 93.50m Rotary Coring 93.50-102.50m
		10				<u>SAND</u> , grey, silty, medium grained.			
		20							
		30							
		40				<u>CLAY</u> , grey, soft, silty			
			▽			<u>Boulder CLAY</u> grey and reddish-brown, very stiff.			
			▽						
		50	▽						

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
P 4 E I S T O C E N E		50	▽			<u>Boulder Clay</u> , grey and reddish brown, very stiff with erratics up to .23m			
		55	▽						
		60	▽						
		65	▽						
		70	▽						
		75	▽						
		80	▽						
		85	▽						
		90	▽						
		95	▽						
TERTIARY?		100				<u>Clay</u> , pale grey, sandy, with thin coaly streaks and bands.			
						END OF BOREHOLE			

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AREA CARDIGAN BAY

SUMMARISED BOREHOLE LOG

Ref.	Author
52/05/99	M. Parkin



Borehole No		70 / 9		Area		CARDIGAN Bay		Block No		107 - 9		
Latitude		52° 49.17' N		I.G.S. regd No		52 / 05 / 100						
Longitude		4° 18.82' W		Water Depth		21 m		Rig				Whitethorn
Other Position Fixing Methods				Objectives		Stratigraphic						
Radar Ranging				Spud Date		11.10.70		Completion Date				
Decca red E 23.70 green D 44.98 purple A 52.09				Status		Uncompleted		Final Depth bs.b.		108 m		
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks		
R E E C E N T						SAND, dk grey, medium grained, shelly.						
		10				Mud., grey, sandy, slightly shelly.						
		20										
		30				SAND, dark gray, fine grained, muddy, shelly.						
		40				SAND, greyish brown, fine grained, slightly micaceous, shell fragments.						
		50										

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
P L E I S T O C E N E R E C E N T		50				<u>SAND</u> , grey to brown, fine to medium, shell fragments			
		60				<u>BOULDER CLAY</u> greyish brown igneous and metamorphic erratics up to .08m			
						<u>SAND</u> , grey + brown, gravelly.			
		70				<u>BOULDER CLAY</u> , dark brown, erratics up to .10m			
		80							
		90				<u>SAND AND GRAVEL</u> coarse grained			
		100							
					END OF BOREHOLE				

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 AREA CARDIGAN BAY  
 SUMMARISED BOREHOLE LOG  

Ref.	Author
52/05/100	M. Parkin


Borehole No 71 / 45		Area CARDIGAN Bay		Block No 107 - 26					
Latitude 52° 30.92 N		I.G.S. regd. No +52/05/43							
Longitude 4° 36.46 W		Water Depth 32 m		Rig Whitethorn					
Other Position Fixing Methods		Objectives Stratigraphic							
Radar Ranging		Spud Date 28.7.71 Completion Date 2.8.71							
Deca red F16.86 green 043.39 purple A50.69		Status Completed Final Depth bs.b. 44.0 m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE			▽			BOULDER CLAY, gray, silty, with small amounts of broken shell fragments			
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
JURASSIC		40				Mudstone, dk grey, micaceous, fossiliferous, molluscs and shell frags, some pyrite.			probably davoei Zone.
						END OF BOREHOLE.			
		50							




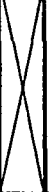
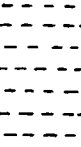

Borehole No 71 / 4 6		Area CARDIGAN Bay		Block No 107 - 13					
Latitude 52° 30.02 N			I.G.S. regd No 52/05/1						
Longitude 4° 31.98 W			Water Depth 27 - 29 Rig Whitethorn						
Other Position Fixing Methods			Objectives Stratigraphic						
Radar Ranging			Spud Date 3.8.71 Completion Date 4.8.71						
Decca red F14.19 green D47.05 purple A51.20			Status Completed Final Depth bs.b. 43.0m						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE AND HOLOCENE			▽	✗					GRAVEL, and cobbles up to 10cms. Abundant ap. fauna.
			▽						
			▽						
		10	▽						
			▽						
			▽						
			▽						
		20	▽						
			▽						
			▽						
			▽						
			▽						
JURASSIC		40		✗		MUDSTONE, grey, thinly laminated. sl micaceous, calcareous. Crushed bivalves present. dips 20°			
						END OF BOREHOLE.			
		50							

Borehole No 71 / 47			Area CARDIGAN Bay Block No 107 - 12							
Latitude 52° 32' 35" N			I.G.S. regd No 52 / 05 / 46							
Longitude 4° 44' 17" W			Water Depth 40 - 43m Rig Whitethorn							
Other Position Fixing Methods			Objectives Stratigraphic							
Radar Ranging			Spud Date 5.8.71 Completion Date 6.8.71							
Deca red F21.52 green D37.20 purple A50.42			Status Completed Final Depth bs.b. 39.5m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks	
PLEISTOCENE AND HOLOCENE				X		Sand, medium-grs, shell and shell debris				
PERMIAN/TRIASSIC	KREUPER	30				MARL red-brown, slightly silty bands and abundant gypsum veins and bands of white & pink some up to 10cms thick.				
		40				END OF BOREHOLE				
		50								

Borehole No		71 / 48		Area		CARDIGAN BAY		Block No		107 - 21	
Latitude						52° 13' 23" N					
Longitude						4° 52' 70" W					
Other Position Fixing Methods						I.G.S. regd No 52/05/2					
Water Depth						45 - 47m Rig Whitethorn					
Objectives						Stratigraphic					
RADAR RANGING						Spud Date 7.8.71 Completion Date 9.8.71					
Decca red 45.71 green 042.21 purple 150.40						Status Completed Final Depth bs.b. 49.50m					
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks		
Pleistocene And Holocene						CLAY, soft, grey with a little sand + gravel and shell debris.					
		10	▽			<u>BOULDER CLAY</u> , grey brown, muddy and sandy.					
		▽									
		▽									
		▽									
		20	▽								
		▽									
		▽									
		30	▽								
		▽									
		▽									
		40	▽								
		▽									
		Jurassic	Lins	50				MUDSTONE OR SHALE, dk grey, micaceous, sporadic nodules, impressions of v. small bivalves			
						END OF BOREHOLE					

Borehole No	71/49	Area	CARDIGAN Bay	Block No	107 - 15
Latitude	52° 38.88 N	I.C.S. regd No 52/05/47			
Longitude	4° 12.77 W	Water Depth 15.5 - 19.5m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 9.8.71 Completion Date 13.8.71			
Decca red E23.43 green E38.30 purple 1752.95		Status Completed Final Depth bs.b. 62.00m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Pleistocene And Holocene		10				SAND grey brown, fine to medium, with much fine shell debris.			
		20							
		30							
		40							
		50							
						GRAVEL			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY		50				SAND			
						GRAVEL, fine, composed of quartz, quartzite, igneous rock and schist frags and pale yellow clay.			
		60				Mud, gray with fine gravel and coarse sand.			
						END OF BOREHOLE			
		70							
		80							
		90							
		100							

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AREA CARDIGAN BAY



SUMMARISED BOREHOLE LOG

Ref.	Author
52/05/47	M. Parkin



Borehole No		71 / 50		Area		CARDIGAN Bay		Block No		107 - 17			
Latitude				52° 27.61 <sub>w</sub>				I.G.S. regd No				52/05/3	
Longitude				4° 36.49 <sub>w</sub>				Water Depth				33 - 34 m	
Other Position Fixing Methods								Rig				Whitethorn	
Radar Ranging								Objectives				Stratigraphic	
								Spud Date				15.8.71	
								Completion Date				16.8.71	
Dacca red F17.46				green D45.28				Status				Completed	
								Final Depth bs.b.				36.5 m	





  

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT			▽						Drilled by shell on - auger to 2.7m Rotary rock bit to 29.5m Diamond core barrel to 31m Rotary rock bit to 34.5m Diamond core barrel 36.5m
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
PLEISTOCENE AND		10	▽			<u>BOULDER CLAY</u> , brownish grey, with pebbles up to 7cm.			
			▽						
			▽						
			▽						
TO		20	▽						
			▽						
			▽						
			▽						
E		30	▽						
			▽						
			▽						
			▽						
JURASSIC						<u>LIMESTONE</u> gray, hard, crystalline, fossiliferous			<u>CLAY</u> , silty, laminated, pale brownish grey, stoneless.
		40				END OF BOREHOLE			
		50							

Borehole No		71 / 51 A		Area CARDIGAN BAY		Block No 107 - 27			
Latitude 52° 9.14 N				I.G.S. regd. No 52 / 05 / 141					
Longitude 4° 45.43 W				Water Depth 39m		Rig Whitethorn			
Other Position Fixing Methods				Objectives Stratigraphic					
Radar Ranging				Spud Date		Completion Date			
Decca red 92.03 green E30.20				Status Completed		Final Depth bs.b. 20m			
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
		10				Confidential Contract Hole.			3 holes drilled numbered 51 A/B/C.
		20							
		30							
		40							
		50							

Borehole No <b>71 / 55</b>		Area <b>CARDIGAN Bay</b> Block No <b>1.07 - 16</b>	
Latitude <b>52° 28.04 N</b>		I.C.S. regd No <b>52/05/4</b>	
Longitude <b>4° 47.38 W</b>		Water Depth <b>49.5 - 50.5m</b> Rig <b>Whitethorn</b>	
Other Position Fixing Methods		Objectives <b>Stratigraphic</b>	
<b>Radar Ranging</b>		Spud Date <b>10.10.71</b> Completion Date <b>10.10.71</b>	
Decra red <b>900.31</b> green <b>D37.71</b>		Status <b>Completed</b> Final Depth bs.b. <b>38 m</b>	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY			▽			<u>Boulder Clay</u> gray-brown, sandy, stiff			Biostratigraphy: Age - indeterminate
			▽						
			▽						
		10				<u>Gravel and Sand</u> , medium-coarse sand with layers of gravel and cobbles, bed of boulder clay at 10m.			
		20							
			▽			<u>Boulder Clay</u> brown-grey, stiff with small pebbles.			
			▽						
		30	▽						
PERMO-TRIASSIC						<u>Mudstone</u> , mainly reddish brown becoming greyish-olive green to base.			
		40				END OF BOREHOLE			
		50							

Borehole No	71 / 56	Area	CARDIGAN Bay	Block No	107 - 21
Latitude	52° 14.62 N	I.G.S. regd No 52 / 06 / 5			
Longitude	5° 0.54 W	Water Depth 52-54.5m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 14.9.71 Completion Date 16.9.71			
Dace red 410.15 green 036.94		Status Uncompleted Final Depth bs.b. 69.20m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
P L E I S T O C E N E			▽			<u>BOULDER CLAY</u> grey, sandy soft-stiff. Coarse sand and Gravel.			
			▽						
			▽						
		10	▽						
			▽						
			▽						
		20	▽						
			▽						
T E R T I A R Y O R M A R I N E Q U A T E R N A R Y		30				<u>SHELLY CLAY</u> pale grey, very shelly with rock chips.			
		40							
		50							

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
MARINE TERTIARY OR QUATERNARY		50				<u>SHELLY CLAY</u>			
		60				<u>SHELLY CLAYS AND SANDS.</u> grey to brown clay, fine quartz. At base fine unconsol- idated greenish gray(?) glauconitic sand with small white shell fragments			
		70				END OF BOREHOLE			
		80							
		90							
		100							

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AREA CARDIGAN BAY

SUMMARISED BOREHOLE LOG

Ref.	Author
52/06/5	M. Parkin

Borehole No		71 / 57		Area		CARDIGAN Bay		Block No		107 - 15					
Latitude		52° 37' 40" W				I.G.S. regd No		52/55/48							
Longitude		4° 13' 84" W				Water Depth		17 - 21 m Rig Whitethorn							
Other Position Fixing Methods						Objectives						Stratigraphic			
Radar Ranging						Spud Date						17.9.71 Completion Date		19.9.71	
Decca red F 00.66 green E 38.31						Status						Completed Final Depth bs.b.		47.5 m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks					
JURASSIC BATHONIAN						CLAY gray and streaky dk gray, with ? derived pebbles slight smell of H <sub>2</sub> S									
		10				SAND fine at top, coarser at base; black speckled. Tiny shell fragments at base.									
		20								PEAT olive-brown with wood fragments. Inter laminated with sandy clay.					
						BOULDER CLAY gray, stiff small pebbles.									
		30													
		40													
						LIMESTONE shelly, rubbly, partly calcarenite.									
		50				END OF BOREHOLE									







































IGS 1284 1000 1/75

Borehole No 72/38 A and B Area CARDIGAN Bay Block No 107 - 14									
Latitude 52° 31.15 N					I.C.S. regd No 52/05/82				
Longitude 4° 16.18 W					Water Depth 18.2 - 22.6m Rig Whitehorn				
Other Position Fixing Methods					Objectives Stratigraphic				
Radar Ranging					Spud Date 28.7.72 Completion Date 30.7.72				
Decca red F 4.00 green E 39.48 purple 52.48					Status Completed Final Depth bs.b. 32 m				
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent									SAND, clean medium grain size.
PLEISTOCENE			▽			<u>Boulder Clay</u> brown-grey stiff, sandy with pebbles			Biostratigraphy: Age - Middle Jurassic; Bathonian
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
JURASSIC Bathonian		30				<u>LIMESTONE</u> , grey, argillaceous.			Hole closed due to poor penetration - badly worn rock roller.  Samples from 26.50m are 72/38 B
						END OF BOREHOLE			
		40							
		50							



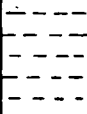


ICS 1284 1000 1/75

Borehole No	72/66	Area	CARDIGAN Bay	Block No	107 - 26
Latitude	52° 6.68 N	I.C.S. regd No 52/05/135			
Longitude	4° 57.32 W	Water Depth 43 - 47m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 6.10.72 Completion Date 8.10.72			
Decca <sup>3B</sup> red 49.04 green 042.49 purple A50.15		Status Completed Final Depth bs.b. 42m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND AND GRAVEL			Decca 1B also used red A 14.00 green 442.52 purple A 70.00
E						<u>BOULDER CLAY</u> grey, brown, very sandy in parts with fragments of peat, lignite and pebble towards base.			
N									
E		10							
C									
O									
T		20							
S									
I									
P		30				<u>CLAY</u> dk green, richly glauconitic, horizontal lamination and layering, slightly sandy in part. soft.			
L									
E						END OF BOREHOLE			
R		40							
T						END OF BOREHOLE			
E									
R						END OF BOREHOLE			
I									
N						END OF BOREHOLE			
E		50							

IGS 1284 1000 1/75

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palæo	Lithological Description	Casing	Electric Logs	Remarks
P L E I S T O C E N E		50				<u>SAND</u> fine, clayey, traces of shell debris at 59m			
		60							
		70				<u>CLAY</u> grey to dk grey, plastic, silty and sandy in parts, calcareous, mica flakes, rare pebbles. shell fragments between 70.4 and 72.9m.			
		80				END OF BOREHOLE.			Hole terminated at this depth because of the danger of the 6in. and 4 casing becoming fast in hole.
		90							
		100							

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AREA CARDIGAN BAY

SUMMARISED BOREHOLE LOG

Ref.	Author
52/05/136	M. Parkin





Borehole No	73 / 42	Area	CARDIGAN Bay	Block No	107 - 23
Latitude	52° 11' 62" N	I.C.S regd No. 52 / 05 / 137			
Longitude	4° 32' 44" W	Water Depth 28.5 - 30m Rig Whitethorn			
Other Position Fixing Methods	Objectives stratigraphic				
Radar Ranging		Spud Date 4.9.73 Completion Date 5.9.73			
Decca red A22.70 green F43.58 purple B63.48		Status Completed Final Depth bs.b. 30.10m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
P L E I S T O C E N E A N D R E C E N T						Mud. grey silty with fragmentary shells.			
L O W E R P A L A E O Z O I C						GRAVEL, with subangular rock frags.			
						Boulder Clay grey, brown silty in parts; tiny rock frags scattered throughout.			
						Mudstone, silty, micaceous, badly fractured.			
						END OF BOREHOLE			

Borehole No		73/43		Area		CARDIGAN Bay		Block No		107 - 11					
Latitude				52° 33.75' N				I.G.S. regd No				52/05/138			
Longitude				4° 51.05' W				Water Depth		60 m		Rig		Whitethorn	
Other Position Fixing Methods								Objectives		Stratigraphic					
Radar Ranging								Spud Date		6.9.73		Completion Date		9.9.73	
Decca red 41.70 green 031.63 purple 150.21								Status		Completed		Final Depth bs.b.		77 m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
P L E I S T O C E N E A N D R E C E N T				X		<u>SAND AND GRAVEL</u> , shelly			
		10		X		<u>CLAY</u> gray, brown with tiny shell and rock fragments.			
		20		X		<u>GRAVEL</u> <u>SAND</u> coarse, shelly with gray brown silty clay.			
		30		X		<u>CLAY</u> dk grayish brown, laminated with silty and sandy bands. Rare tiny rock fragments and small pebbles.			
		40		X					
		50		X		<u>SAND</u> , green grey, varying from fine to cgs and to fine gravel clayey in parts.			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
P L E I S T O C E N E		50				<u>SAND</u> , green grey, varying from fine to coarse to a fine gravel, clayey in parts.			
		60							
		70				<u>CLAY</u> , dark greyish brown, as above.			
		80				END OF BOREHOLE			
		90							
		100							

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





SUMMARISED BOREHOLE LOG







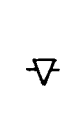
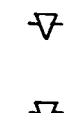
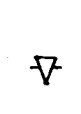
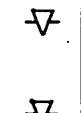
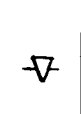
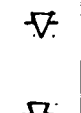
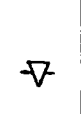

Ref.	Author
52/05/138	M. Parkin

Borehole No. 73/45		Area CARDIGAN Bay		Block No 107 - 26					
Latitude 52° 6.04 N		I.G.S. regd No 52/05/139							
Longitude 4° 59.89 W		Water Depth 43 - 47 m Rig Whitethorn							
Other Position Fixing Methods		Objectives stratigraphic							
Radar Ranging		Spud Date 16.9.73 Completion Date 17.9.73							
Decca red A13.5 green G43.96 purple A68.06		Status Completed Final Depth bs.b. 22 m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL, sandy at sea bed with cobbles to base.			
PLEISTOCENE		10				BOULDER CLAY, brownish grey, firm with sub rounded and angular pebbles.			
		20							
						END OF BOREHOLE			
		30							
		40							
		50							



Borehole No	74 / 21	Area	CARDIGAN Bay	Block No	107 - 26
Latitude	52° 6' 34" N	I.G.S. regd No	52/05/144		
Longitude	4° 59' 45" W	Water Depth	44 - 50m Rig Whitethorn		
Other Position Fixing Methods		Objectives	Stratigraphic		
Radar Ranging		Spud Date	23.8.74	Completion Date	25.8.74
Decca red 113.54 green 943.97 purple 1168.06		Status	Uncompleted Final Depth bs.b. 31m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE AND RECENT						SAND AND GRAVEL, with shells.			
		10				CLAY, with lignite and pebbles. colour varies, at 19m typical grey. At 23m, colour turns to chocolate red. Till?			
		20				Basal conglomerate CLAY/Marl, pink-white.			
TESTIM?		30				END of Borehole			hole abandoned due to bad weather.
		40							
		50							

Borehole No 74 / 22		Area CARDIGAN BAY		Block No 107 - 17				
Latitude 52° 25.34 N			I.G.S. regd No 52/05/145					
Longitude 4° 44.94 W			Water Depth 43 - 46m Rig Whitethorn					
Other Position Fixing Methods			Objectives Stratigraphic					
Radar Ranging.			Spud Date 27.8.74 Completion Date 28.8.74					
Deca red 600.22 green 040.50 purple 150.45			Status Completed Final Depth bs.b. 122.80m					
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE AND RECENT		10			SAND AND GRAVEL, coarse with shell fragments.			
					Boulder CLAY, gray, yellow and brown with sand traces.			
		20						
		30						
		40						
		50						
								
								
								
								
								
								

IGS 1284 1000 1/75

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
JURASSIC ? PERMO - TRIAS ?		100	▽			BOULDER CLAY, grey, yellow, and brown with sand.			
			▽						
		110				MUDSTONE, SANDSTONE, silty, red-brown and greenish grey.			
		120				END OF BOREHOLE			

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AREA CAROIGAN BAY

SUMMARISED BOREHOLE LOG

Ref.	Author
52/05/145	M. PARKIN

Borehole No	74 / 23	Area	CARDIGAN Bay	Block No	107 - 19
Latitude	52° 27.24 N	I.G.S. regd No 52/05/146			
Longitude	4° 22.41 W	Water Depth 28 - 30m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 28.8.74 Completion Date 30.8.74			
Decca red F8.98 green E36.95 purple A51.80		Status Complete Final Depth bs.b. 79.30m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE AND RECENT			▽						
			▽						
			▽						
		10	▽			Boulder CLAY, mainly			
			▽			grey, sandy			
			▽						
			▽						
		20	▽						
			▽						
			▽						
			▽						
		30	▽						
			▽						
			▽						
			▽						
		40	▽						
			▽						
			▽						
			▽						
		50	▽						
Jurassic						Mudstone			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE RECENT		50	▽	×		<u>BOULDER CLAY</u>			
J u R A S S I C  UPPER BATHONIAN		60				<u>MUDSTONE.</u> dk grey and green with lignitic bands, calcareous with bands of Limestone.			
		70							
		80				END OF BOREHOLE			
		90							
		100							

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AREA CARDIGAN BAY

SUMMARISED BOREHOLE LOG

Ref.	Author
52/05/146	M. Parkin.

Borehole No 74 / 24		Area CARDIGAN Bay Block No 107 - 22	
Latitude 52° 14.83 W		I.G.S. regd No 52/05/147	
Longitude 4° 44.88 W		Water Depth 37 - 40m Rig Whitethorn	
Other Position Fixing Methods		Objectives Stratigraphic	
Radar Ranging		Spud Date 30.8.74 Completion Date 31.8.74	
Decca red A19.25 green G34.10 purple B56.12		Status Completed Final Depth bs.b. 38.8m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE AND RECENT			▽			<u>BOULDER CLAY</u> , grey-brown sandy with unconsolidated rock at base.			Biostratigraphy: Age - Lower Jurassic Pliensbachian
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
			▽						
JURASSIC		30				<u>MUONSTONE</u> , dk gray calcareous, steep dips through out core. Bedded lignite and secondary calcite rhombs probably associated with nearby faulting?			
		40				END OF BOREHOLE			
		50							


Borehole No	74/25	Area	CARDIGAN BAY	Block No	107 - 14
Latitude	52° 38.78 N	I.G.S. regd No 52/05/148			
Longitude	4° 18.96 W	Water Depth 25 - 30 M Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 31.8.74 Completion Date			
Decca red F3.45 green E33.62		Status Uncompleted Final Depth bs.b. 121 M			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
T E R T I A R Y									
		10							
		20							
		30							
		40							
		50							

CLAY AND SAND, grey to pinkish brown, locally gravelly or pebbly, lignitic fragments at some horizons.





Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
T E R T I A R Y		100				CLAY AND SAND, grey to pinkish brown, locally gravelly or pebbly, lignite fragments at some horizons			Hole abandoned due to bad weather.
		110							
		120				END OF BOREHOLE			
		130							
		140							
		150							


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AREA CARDIGAN BAY

SUMMARISED BOREHOLE LOG

Ref.	Author
52/05/148	M. Parkin

Borehole No	75 / 15	Area	CARDIGAN Bay	Block No	107 - 18
Latitude	52° 25.10' N	I.G.S. regd No	52 / 05 / 149		
Longitude	4° 31.25' W	Water Depth	27.5 - 31 m Rig Whitethorn		
Other Position Fixing Methods		Objectives	Stratigraphic		
Radar Ranging		Spud Date	17.5.75	Completion Date	19.5.75
Decay red F14.92 green E32.04 purple A51.25		Status	Completed Final Depth bs.b. 59.9 m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT				X		SAND.			
P L E I S T O C E N E		10				CLAY, gray plastic with sandy layers.			
		20							
		30							
U P P E R ? J U R A S S I C		40		X		MUDSTONE and SILTSTONE. Variagated, predominantly gray with reddish ochre and green variations. Non calcareous, occasional rootlets. Near horizontal bedding.			
		50							

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER ? JURASSIC		50				Mudstone and Siltstone grey with reddish ochre Non calcareous, as above			
		60				END OF BOREHOLE			
		70							
		80							
		90							
		100							

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AREA CARDIGAN BAY	
SUMMARISED BOREHOLE LOG	
Ref.	Author
52/05/149	M. Parkin

Borehole No	75 / 17	Area	CARDIGAN Bay	Block No	107 - 17
Latitude	52° 26' 34" N	I.G.S. regd No	52 / 05 / 150		
Longitude	4° 41' 22" W	Water Depth	37 - 41	Rig	Whitethorn
Other Position Fixing Methods	Radar Ranging		Objectives	Stratigraphic	
		Spud Date	24.5.75	Completion Date	27.5.75
Dacca red F20.72 green D42.71 purple A50.40		Status	Completed Final Depth bs.b. 51.80 m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
JURASSIC	QUATERNARY					GRAVEL, shelly with coarse sand.			
		10				CLAY, grayish brown, stiff.			
		20							
		30				SAND medium grained, yellow.			
		40				CLAY pale grey, waxy with some red and olive mottling			
						SILTSTONE gray passing down to red.			
						CLAY pale grey, silty with some red mottling.			
						SILTSTONE pale grey.			
		50				CLAY gray with olive, purple and red mottling.			

IGS 1284 1000 1/75

END OF BOREHOLE

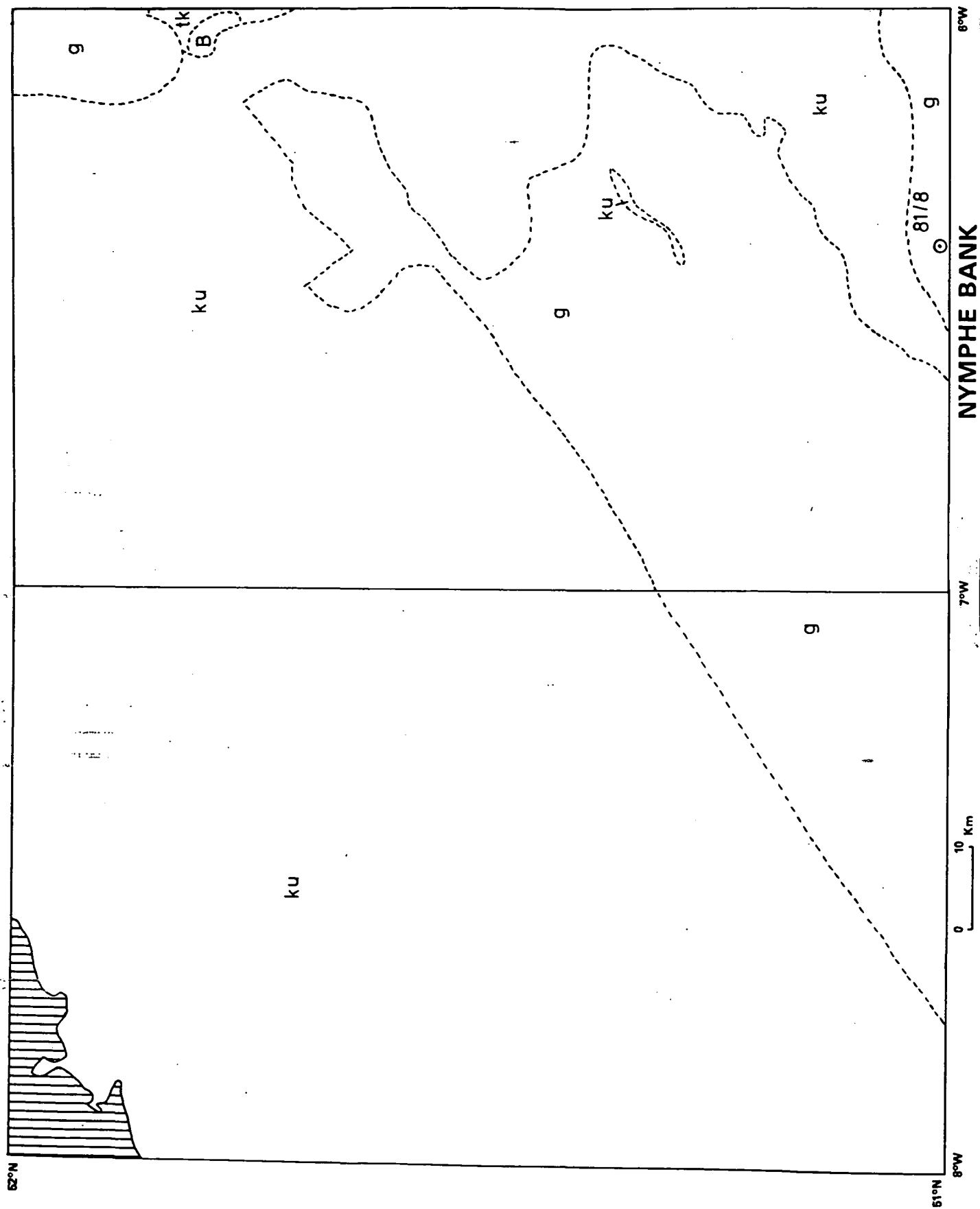


fig 8

Borehole No		81/8A		Area		NYMPHE BANK		Block No		102 - 28	
Latitude		51° 6' 36" N		IGS		regd No		51/07/88		87	
Longitude		6° 24' 95" W		Water Depth		96 m		Rig		MARINER	
Other Position Fixing Methods				Objectives		STRATIGRAPHIC					
SAT NAV				Spud Date		3.6.81		Completion Date		4.6.81	
Decca				Status		Completed		Final Depth bs.b.		75.66 m	

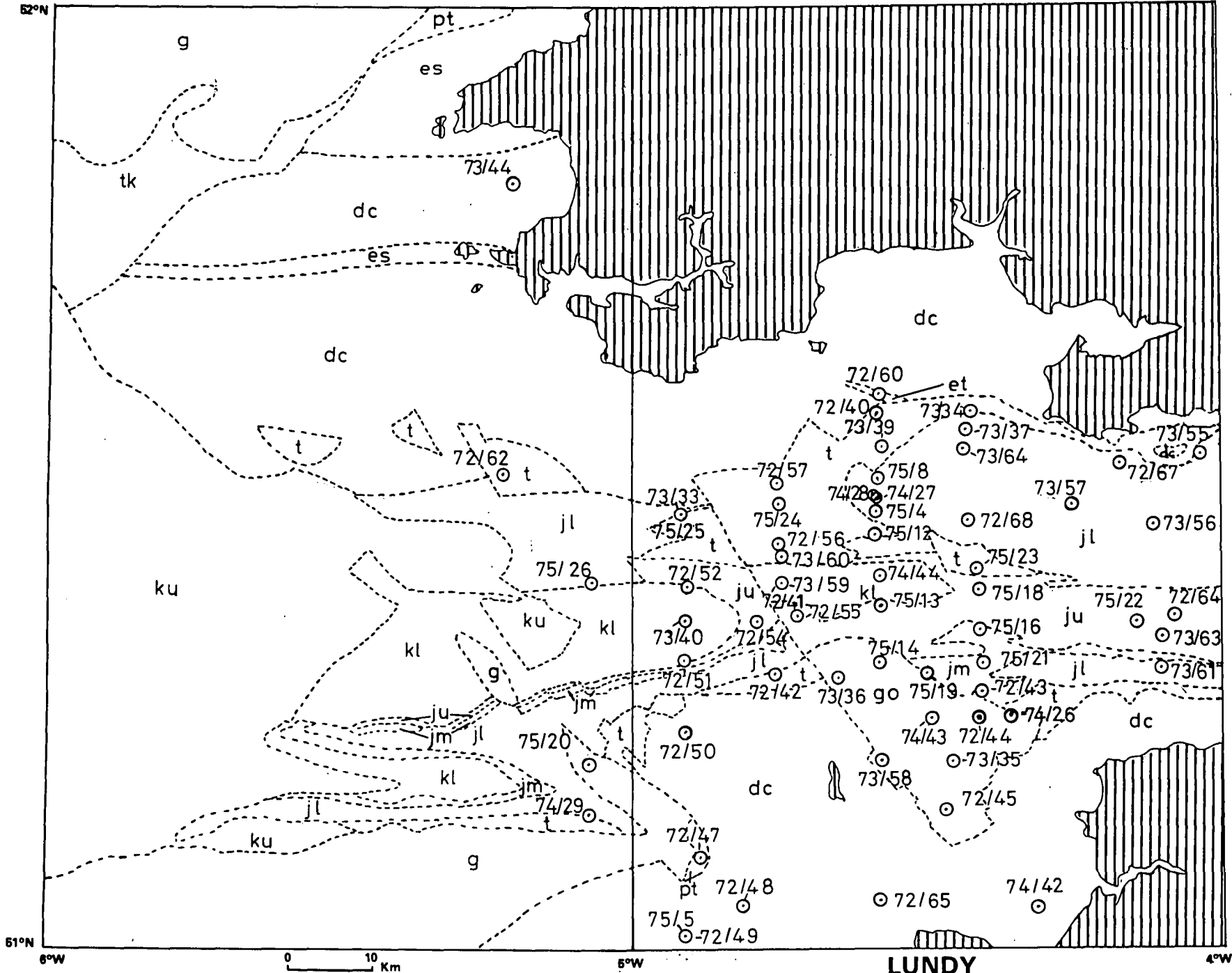
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY		0							Due to the unconsolidated nature of the sequence, recovery was poor and samples were obtained using the hammer sampler.
		10							
		20				SAND, grey, fine, muddy, shelly, forams, lignite fragments, mica with interbedded and interlaminated clay and gravel.			
		30							
		40							
		50							

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY		50				SAND, grey, fine, shelly, as above.			
		60				CLAY, grey, overconsolidated, probably till?			
		70							
						CHALK with flints.			
CRETACEOUS ?						END OF BOREHOLE			
		80							
		90							
		100							



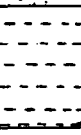

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AREA NYPHE BANK	
SUMMARISED BOREHOLE LOG	
Ref.	Author
51/07/87	M. Parkin



fig 9







Borehole No	72 / 40	Area	L u n d y	Block No	104 - 13
Latitude	51° 33.63 N	I.G.S regd. No 51/05/X 456			
Longitude	4° 34.84 W	Water Depth		35 - 42	Rig Whitethorn
Other Position Fixing Methods		Objectives S t r a t i g r a p h i c			
R a d a r R a n g i n g		Spud Date 12.8.72 Completion Date 13.8.72			
Dacca red R12.62 green F39.86 purple J74.07		Status Completed Final Depth bs.b. 15.0m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
R E C E N T		10				<u>Sandy gravel</u> and gravelly sand with the lower part an admixture of gravel and clay.			Biostratigraphy. Age - Indeterminate
TRIASSIC	KEUPER MARL					<u>CLAY</u> , reddish brown with patches of a pale steel blue-grey colour. Traces of bedding with silty streaks.			
		20				END OF BOREHOLE			
		30							
		40							
		50							



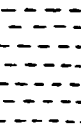

Borehole No 72/42		Area Lundy		Block No 104 - 22					
Latitude 51° 17.47 N		I G S regd No 51/05/16							
Longitude 4° 45.45 W		Water Depth 58.5 - 62.6m Rig Whitethorn							
Other Position Fixing Methods		Objectives Stratigraphic							
Radar Ranging		Spud. Date 23.8.72 Completion Date 24.8.72							
Dacca green F47.72 purple I 55.25		Status: Uncompleted Final Depth bs.b. 3.0m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PERMIAN TRIASSIC			0% 0% 0% 0% 0%	X		GRAVEL.			
						MUDSTONE, red-brown, silty			
						Dip 10°			
						END OF BOREHOLE			
		10							
		20							
		30							
		40							
		50							





Borehole No	72/41	Area	LUNDY	Block No	104 - 17
Latitude	51° 23.35' N	BGS Reg. No.	51/05/3		
Longitude	4° 45.06' W	Water Depth	58	Rig WHITETHORN	
Other Position Fixing Methods		Objectives STRATIGRAPHIC			
Decca / Chain 18: Red A 7.14, Green F 47.80,		Spud Date 13-8-72 Completion Date 13-8-72			
Purple I 70.40.		Status Completed Final Depth bs.b. 3.50m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY						Gravel with sand and shell fragments.			
? JURASSIC						Grey sandy pyritic clay Total depth . 3.50m.			
		10							
		20							
		30							
		40							
		50							

Borehole No		72 / 43		Area		L u n d y		Block No		104 - 23					
Latitude				51° 16.39 N				I.G.S. regd No				51 / 05 / 17			
Longitude				4° 24.52 W				Water Depth				47 - 52 m Rig Whitethorn			
Other Position Fixing Methods								Objectives				S t r a t i g r a p h i c			
Radar Ranging								Spud Date				23.8.72 Completion Date		24.8.72	
Decca				green E44.01 purple I70.77				Status				Completed Final Depth bs.b.		6.65 m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo.	Lithological Description				Casing	Electric Logs	Remarks			
RECENT						SAND and GRAVEL, cgs - fine with shell debris.						Biostratigraphy: Age - Lower Jurassic; ? Hettangian to Sinemurian			
JURASSIC						MUDSTONE gray, slightly silty, shell frags incl rare solid belemnites. dip 0° - 10°									
						END OF BOREHOLE									
		10													
		20													
		30													
		40													
		50													

Borehole No	72/44	Area	LUNDY	Block No	104 - 23
Latitude	51° 14.78 N	I.G.S. regd No 51/05/18			
Longitude	4° 24.78 W	Water Depth	48 m	Rig	Whitehorn
Other Position Fixing Methods		Objectives stratigraphic			
Radar Ranging		Spud Date 25.8.72 Completion Date 26.8.72			
Decca green E43.63 purple I66.22		Status Completed Final Depth bs.b. 6.9 m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND and GRAVEL poorly sorted with shell debris.			
TERTIARY						CLAY/MUONSTONE, red-brown, soft, rootlets abundant.			
		10				END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No		72/45		Area		LUNOY		Block No		104 - 28	
Latitude		51° 8.94 N		I-G-S		regd No		51/05/19			
Longitude		4° 28.21 W		Water Depth		Rig		Whitethorn			
Other Position Fixing Methods				Objectives		Stratigraphic					
Radar Ranging				Spud Date		27. 8. 72		Completion Date		28. 8. 72	
Deca		green E45.41 purple E73.65		Status Completed		Final Depth bs.b.		8.70m			
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks	
RECENT						SAND and GRAVEL					
TERTIARY						CLAY, red and grey, plastic at top becoming very stiff.					
		10				END OF BOREHOLE					
		20									
		30									
		40									
		50									

Borehole No 72/47		Area L u n o y		Block No 104 - 26				
Latitude 51° 5.93 N		I.G.S regd No 51/05/20						
Longitude 4° 53.12 W		Water Depth 62 - 65 m		Rig Whitethorn				
Other Position Fixing Methods		Objectives Stratigraphic						
Radar Ranging		Spud Date 1.9.72		Completion Date 2.9.72				
Decca green 437.7 purple 477.1		Status Completed Final Depth bs.b. 8.3 m						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Lithological Description	Casing	Electric Logs	Remarks
Recent				X	GRAVEL, shelly, sandy.			
PERMIAN/TRIASSIC				X	MUDSTONE, red-brown, silty in parts with numerous gray-green spots.			
		10			END OF BOREHOLE			
		20						
		30						
		40						
		50						




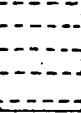
Borehole No	72 / 48	Area	L u n d y	Block No	104 - 26
Latitude	51° 2.80N	I.G.S regd No 51/05/21			
Longitude	4° 48.88W	Water Depth		58 - 61 m	Rig Whitethorn
Other Position Fixing Methods		Objectives S t r a t i g r a p h i c			
R a d a r R a n g i n g		Spud Date		2.9.72	Completion Date 3.9.72
Decca green 432.34 purple 470.74		Status Completed Final Depth bs.b. 6.0 m			





Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent						GRAVEL, sandy, shelly.			
Upper Carboniferous						CLAY, red-brown, silty.			
						SANDSTONE and SILTSTONE			
						END OF BOREHOLE			
		10							
		20							
		30							
		40							
		50							

Borehole No 72/49 / 75/5		Area L u n d y	Block No 104 - 26
Latitude 51° 0.95 N		I.G.S. regd No 51/05/502	
Longitude 4° 54.80 W		Water Depth 60 - 66 m RIG Whitethorn	
Other Position Fixing Methods		Objectives Stratigraphic	
Radar Ranging		Spud Date 13.4.75 Completion Date 15.4.75	
Decca green 439.99 purple 461.45		Status Uncompleted Final Depth bs.b. 13 m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL, sandy and shelly.			
						CLAY, dk grey - rock frags. & weathered shale?			
CARBONIFEROUS		10				SHALE dk grey, weathered with pebbles.			MUDSTONE, grey, silty
						MUDSTONE, grey.			
						END OF BOREHOLE			
		20							
		30							
		40							
		50							

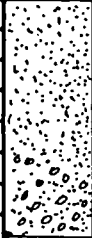
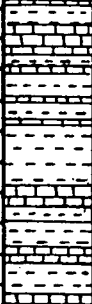
Attempt 75/5  
abandoned at 1.90m  
due to heavy swell  
and strong winds.

Borehole No 72/50		Area L u n o y		Block No 104 - 21					
Latitude 51° 13.89 N			I.G.S. regd No 51/05/23						
Longitude 4° 54.56 W			Water Depth 62.2 - 67.8 Rig Whitethorn						
Other Position Fixing Methods			Objectives Stratigraphic						
Radar Ranging			Spud Date 5.9.72 Completion Date 6.9.72						
Decca green 639.50 purple H68.55			Status Completed Final Depth bs.b. 8.00m						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL, fine, sandy, shelly			
CARBONIFEROUS						MUDSTONE, gray, slightly silty.			
		10				END OF BOREHOLE			
		20							
		30							
		40							
		50							



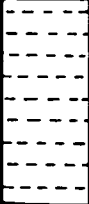
Borehole No		72 / 51		Area		L u n d y		Block No		104 - 21	
Latitude						51° 18.36 N					
Longitude						4° 54.79 W					
I.G.S. regd No						51/05/24					
Water Depth						61.2 - 67.2 Rig Whitethorn					
Other Position Fixing Methods						Objectives					
Stratigraphic											
Radar Ranging						Spud Date 6.9.72 Completion Date 7.9.72					
Decca green 439.70 purple I 50.30						Status Completed Final Depth bs.b. 5.50m					
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks		
Recent Recent						SAND and GRAVEL, shelly			Biostratigraphy: Age - Indeterminate		
						CLAY, gray-brown, sandy					
						MUDSTONE, brown,					
						END OF BOREHOLE					
		10									
		20									
		30									
		40									
		50									

Borehole No 72/52		Area LUNDY		Block No 104 - 16				
Latitude 51° 23.03 N		I.G.S. regd No 51/05/25						
Longitude 4° 54.45 W		Water Depth 62.5 - 69m Rig Whitethorn						
Other Position Fixing Methods		Objectives Stratigraphic						
Radar Ranging		Spud Date 7.9.72 Completion Date 8.9.72						
Decca green 439.40 purple 162.00		Status Uncompleted Final Depth bs.b. 3.50m						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Lithological Description	Casing	Electric Logs	Remarks
Pleistocene And Recent			▽	X	Boulder CLAY, brown-gray			Sand, shelly with pebbles
					END OF BOREHOLE			Hole abandoned due to casing moving.
		10						
		20						
		30						
		40						
		50						

Borehole No- 72/54			Area Luwoy			Block No 104 - 17			
Latitude 51° 20.87N			I.G.S. regd No 51/55/53						
Longitude 4° 47.32W			Water Depth 60.5 - 63.6 Rigs Whitethorn						
Other Position Fixing Methods			Objectives Stratigraphic						
Radar Ranging			Spud Date 15.9.72 Completion Date 16.9.72						
Deca red 85.93 green 32.02 purple I 62.60			Status Completed Final Depth bs.b. 6.00 m						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT				X		GRAVEL, sandy, poorly sorted			Biostratigraphy: Age - Middle Jurassic, Bathonian
JURASSIC (L. P. G. 1000)				X		CLAY, grey calcareous.			
				X		MUDSTONE, grey, calcareous.			
				X		CLAY, grey, calcareous.			
			END OF BOREHOLE						
		10							
		20							
		30							
		40							
		50							

Borehole No 72/55		Area L u n d y		Block No 104 - 17					
Latitude 51° 21.34 N		I.C.S. regd No 51/05/54							
Longitude 4° 43.25 W		Water Depth 54.6 - 52.4m RIG Whitethorn							
Other Position Fixing Methods		Objectives S t r a t i g r a p h i c							
Radar Ranging		Spud Date 17.9.72 Completion Date 18.9.72							
Dccar, red 186.92 green F45.74 purple I 66.94		Status Completed Final Depth bs.b. 17.50m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND medium to coarse passing down into well sorted gravel.			Biostratigraphy: Age - Middle Jurassic Bathonian
		10				LIMESTONE AND CLAY interbedded; gray fossiliferous muddy limestone. Gray calcareous clay.			
JURASSIC (L. Purbeck) (u. Portland)		20				END OF BOREHOLE			
		30							
		40							
		50							

Borehole No	72 / 56	Area	L u n o y	Block No	104 - 17
Latitude	51° 25. 89 N	I.C.S. regd No 51/05/55			
Longitude	4° 45. 00 W	Water Depth 54.4 - 51.8 Rig Whitethorn			
Other Position Fixing Methods	Objectives Stratigraphic				
Radar Ranging			Spud Date 18.9.72 Completion Date 19.9.72		
Decca red 187.80 green 430.12 purple 176.50			Status Completed Final Depth bs.b. 14.00 m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND fine - medium, well sorted.			
POST GLACIAL						CLAY gray brown GRAVEL, sandy			
PERMANENT TAILST		10				MUDSTONE red - brown with greeny grey spots and streaks.			
		20				END OF BOREHOLE			
		30							
		40							
		50							




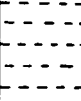


Borehole No	72/57	Area	L u n d y	Block No	104 - 17
Latitude	51° 29.75 N	I.G.S. regd No 51/05/56			
Longitude	4° 45.21 W	Water Depth 44.2 - 47.8m Rigg Whitethorn			
Other Position Fixing Methods	Objectives Stratigraphic				
Deca red 08.80 green 430.62 purple J55.20		Spud Date 19.9.72 Completion Date 20.9.72			
		Status Completed Final Depth bs.b. 17.00 m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND, medium - coarse, well sorted			
POST GLACIAL		10				SAND, medium rich in shells.			
TRIASSIC	KEUPER MARL					GRAVEL, coarse, cobbles increasing downwards.			
		20				MUDSTONE, red-brown, occ greenish grey spots.			
		30				END OF BOREHOLE			
		40							
		50							

Borehole No 72/60		Area LUNDY		Block No 104-13	
Latitude 51° 34.80 N		I.G.S. regd No 51/05/57			
Longitude 4° 34.71 W		Water Depth 35.2-41.6m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 24.9.72 Completion Date 25.9.72			
Deca red A13.12 green F40.04 purple J76.82		Status Completed Final Depth bs.b. 10.50m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND, shelly gravelly passing down into fine sandy gravel.			
						CLAY, stiff, brown.			
						MUDSTONE gray, micaceous.			
		10				END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No		72 / 62		Area		L u n d y		Block No		103 - 14	
Latitude				51° 30.17 N				I.G.S. regd No 51/06/10			
Longitude				5° 13.44 W				Water Depth 60 - 64 m Rig Whitethorn			
Other Position Fixing Methods				Objectives Stratigraphic							
Radar Ranging				Spud Date 29.9.72 Completion Date 30.9.72							
Decayed A3.28 green H 39.75 purple I 63.52				Status Uncompleted Final Depth bs.b. 8.00 m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks		
Recent						SAND, gravally			Hole terminated due to bad weather		
Quaternary						CLAY, slightly sandy					
PERMO-TRIAS						MUDSTONE, red					
		10			END OF BOREHOLE						
		20									
		30									
		40									
		50									

Borehole No	72/64	Area	L u n d y	Block No	104 - 20
Latitude	51° 21.01 N	I.C.S. ragd No 51/05/70			
Longitude	4° 4.91 W	Water Depth 43.4 - 48.2m Rig Whitethorn			
Other Position Fixing Methods	Objectives Stratigraphic				
Radar Ranging			Spud Date 1.10.72 Completion Date 3.10.72		
Decca red. green 045.89 purple J79.51			Status Completed Final Depth bs.b. 12.60m		



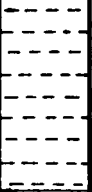

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent						GRAVEL.			
Pleistocene						CLAY, stiff calcareous.			
						GRAVEL sandy			
Tertiary (Kimmeridgian)						MUDSTONE			
						grey, laminated calcareous.			
		10							
		20							
		30							
		40							
		50				END OF BOREHOLE			

Borehole No <b>72/65</b>		Area <b>L u n o y</b>		Block No <b>104 - 28</b>					
Latitude <b>51° 3.13 N</b>			I.G.S. regd No <b>51/05/71</b>						
Longitude <b>4° 35.02 W</b>			Water Depth <b>47.5 - 53 m</b> Rig <b>Whitethorn</b>						
Other Position Fixing Methods			Objectives <b>Stratigraphic</b>						
Radar Ranging			Spud Date <b>3.10.72</b> Completion Date <b>4.10.72</b>						
<sup>18</sup> Decca red <b>A4.08</b> green <b>F33.54</b> purple <b>G78.72</b>			Status <b>Completed</b> Final Depth bs.b. <b>5.00 m</b>						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
<b>CARBONIFEROUS</b>			<div style="display: flex; justify-content: space-around;"> <div>----</div> <div>----</div> <div>----</div> <div>----</div> <div>----</div> <div>----</div> <div>----</div> <div>----</div> <div>----</div> <div>----</div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 10px; height: 10px;"></div> <div style="border: 1px solid black; width: 10px; height: 10px;"></div> </div>		<b>PELITE</b> , cleaved, semi.			
						<b>END OF BOREHOLE</b>			
		10							
		20							
		30							
		40							
		50							








Borehole No	72/67	Area	L u n o y	Block No	104 - 15
Latitude	51° 30.74 N	I.G.S. regd No 51/05/73			
Longitude	4° 10.36 W	Water Depth		34.2 -	Rig Whitethorn
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 12.10.72 Completion Date 13.10.72			
Data <sup>1B</sup> green E36.36 purple A67.22		Status Completed Final Depth bs.b. 12.00m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent						CLAY, gray, silty, plastic			
LOWER JURASSIC P. davosi zone.	MIDDLE LIAS	10				Mudstone, gray with alternations of thin argillaceous limestones 'cementstones'.			
		20				END OF BOREHOLE			
		30							
		40							
		50							

Borehole No	72 / 68	Area	LUNDY	Block No	104 - 18
Latitude	51° 27.12 N	I.C.S. regd No 51/05/74			
Longitude	4° 25.90 W	Water Depth 44.7 - 48.6m Rig Whitethorn			
Other Position Fixing Methods			Objectives Stratigraphic		
Radar Ranging		Spud Date 13.10.72 Completion Date 14.10.72			
1B Decca green E47.60 purple J69.44		Status Uncompleted Final Depth bs.b. 8.50m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL shelly			
JURASSIC	MIDDLE LIAS					MUDSTONE, grey, micaceous.			
		10				END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No	73 / 34	Area	L u n o y	Block No	104 - 13
Latitude	51° 33.96 N	I.G.S. regd No		51/05/337	
Longitude	4° 25.55 W	Water Depth	24 m	Rig Whitethorn	
Other Position Fixing Methods			Objectives		
Radar Ranging			Stratigraphic		
			Spud Date	3.8.73	Completion Date
			4.8.73		
Decca red A16.08 green F31.88 purple A55.41			Status	Uncompleted	Final Depth bs.b.
			13 m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Y A Z E T H A S G		10		X		SAND, medium			
				X		SAND, medium with comminute shell debris.			
				X		SAND, fine to medium			
				X		GRAVELLY SAND medium grained			
				X		CLAY, grey silty, peat layers.			
? PERM TRIAS				X		BOULDER CLAY			Hole abandoned due to bad weather.
				X		CLAY red (wash sample)			
						END OF BOREHOLE			
		20							
		30							
		40							
		50							










Borehole No 73 / 35		Area L u n o y		Block No 104 - 23	
Latitude 51° 11.98 N			I.G.S regd No 51 / 05 / 338		
Longitude 4° 27.46 W			Water Depth 49 m      Rig Whitethorn		
Other Position Fixing Methods			Objectives S t r a t i g r a p h i c		
Radar Ranging			Spud Date 10.8.73 Completion Date 11.8.73		
Deca red 18.90 green E45.41 purple I54.64			Status Completed      Final Depth bs.b. 10m		


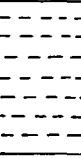
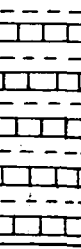
  

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT ? PLISTOCENE			o o o	X		SAND and GRAVEL with traces of clay			
			o o o	X		SAND, brown, fine.			
			- - -	X		CLAY, grey			
			- - -	X		LIGNITE, black.			
TERTIARY?			- - -	X		LIGNITE, brown/black alternations with pale grey plastic clays.			
		10	- - -	X		END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No	73/36	Area	LUNDY	Block No	104 - 22
Latitude	51° 17.30N	I.G.S. regd. No 51/05/339			
Longitude	4° 39.03W	Water Depth	57m	Rig Whitethorn	
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 11.8.73 Completion Date 13.8.73			
Deca red A7.10 green F40.80 purple I60.40		Status Completed Final Depth bs.b. 33.85m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL fine, shelly.			
						SAND medium.			
TERTIARY		10 20 30				LIANITE with brown and grey clay Tertiary			
		40 50				END OF BOREHOLE			

Borehole No	73 / 37	Area	L u n d y	Block No	104 - 13
Latitude	51° 32.96 N	I.G.S. regd. No 51/05/340			
Longitude	4° 26.00 W	Water Depth	30m	Rig Whitethorn	
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 15.8.73 Completion Date 17.8.73			
Deca red green F31.40 purple A51.60		Status Completed Final Depth bs.b. 25.10m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
R E C E N T						<u>SAND</u> , fine - medium grain size. shell fragments locally.			
J U R A S S I C						<u>CLAY</u> pale grey			
	L I A S					<u>MUDSTONE AND LIMESTONE</u> grey.			
						END OF BOREHOLE			

Borehole No		73 / 39		Area		L u n d y		Block No		104 - 13	
Latitude		51° 31.88 N		I.G.S		regd No		51 / 05 / 342			
Longitude		4° 34.60 W		Water Depth		32 - 38m		Rig		Whitethorn	
Other Position Fixing Methods				Objectives		S t r a t i g r a p h i c					
Radar Ranging				Spud Date		19.8.73		Completion Date		21.8.73	
Dacca green F39.30		purple J70.94		Status Completed		Final Depth bs.b.		34.15m			
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks		
P L E I S T O C E N E A N D R E C E N T		0				<u>SAND and GRAVEL</u> med - coarse sand, fine gravel, shelly.					
		10				<u>CLAY</u> grey, sandy.					
		20				<u>GRAVEL and Sand</u>					
? P E R M I A N / T R I A S S I C		30				<u>MUDSTONE</u> red - brown with gypsum veins.					
		40				END OF BOREHOLE					
		50									

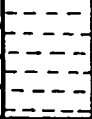

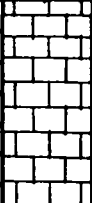

Borehole No	73 / 40	Area	L u n o y	Block No	104 - 16
Latitude	51° 20.86 N	I.G.S. regd No 51/05/345			
Longitude	4° 54.74 W	Water Depth 62 - 67m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 22.8.73 Completion Date 23.8.73			
Decca green 439.58 purple I 56.70		Status Completed Final Depth bs.b. 15.20m			



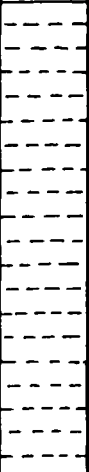
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
TERTIARY?		10				SILTSTONE, SANDSTONE, MUDDSTONE Variegated.			
		20				END OF BOREHOLE			
		30							
		40							
		50							

Borehole No		73 / 44		Area		L u n o y		Block No		103 - 9							
Latitude				51° 48.46 N				I.G.S. regd No				51/06/242					
Longitude				5° 12.16 W				Water Depth				26 - 31.2m Rig Whitethorn					
Other Position Fixing Methods								Objectives				S t r a t i g r a p h i c					
Radar Ranging								Spud Date				14.9.73 Completion Date		15.9.73			
Decca red green				443.96 purple				A6B.06				Status Uncompleted Final Depth bs.b.				18.0m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description				Casing	Electric Logs	Remarks					
T Z E C E R						SAND, fine, shelly.											
						GRAVEL, sandy with cobbles.											
		10				SAND gravelly											
						PELITE											
upper / Palaeozoic		20				END OF BOREHOLE						Hole abandoned due to bad weather.					
		30															
		40															
		50															

Borehole No		73 / 55		Area		L u n o y		Block No		104 - 15	
Latitude				51° 31' 25" N				I.G.S. regd No 51/05/445			
Longitude				4° 2' 14" W				Water Depth		29 - 3	
Other Position Fixing Methods								Objectives		S t r a t i g r a p h i c	
Radar Ranging								Spud Date		16.10.73	
								Completion Date		17.10.73	
Decayed A1.52 green E30.06 purple A79.94								Status		Completed Final Depth bs.b. 10.70m	




Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						CLAY dark grey			
LOWER JURASSIC	L I A S	10				L I M E S T O N E gray, impure with alterations of thin shales and mudstones.			
						END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No		73 / 56		Area		L u n d y		Block No		104 - 20			
Latitude				51° 26.75 N				I.G.S. regd No				51/05/446	
Longitude				4° 6.95 W				Water Depth				35 - 40m Rig Whitethorn	
Other Position Fixing Methods								Objectives				stratigraphic	
Radar Ranging								Spud Date				17.10.73 Completion Date 18.10.73	
Decca red A21.96 green E32.0 purple A62.80								Status Completed				Final Depth bs.b. 19.00m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks			
HOLOCENE				X		SAND, medium with gravel.							
				X		CLAY, brown - gray.							
LOWER JURASSIC	LIAS	10		X		MUDSTONE dark grey, very uniform with some pyrite fractured.							
		20				END OF BOREHOLE							
		30											
		40											
		50											










Borehole No <b>73 / 57</b>		Area <b>L u n d y</b>		Block No <b>104 - 19</b>				
Latitude <b>51° 28.11 N</b>			I.G.S. regd No <b>51/05/447</b>					
Longitude <b>4° 15.27 W</b>			Water Depth <b>38 - 44m</b> Rig <b>Whitethorn</b>					
Other Position Fixing Methods			Objectives <b>S t r a t i g r a p h i c</b>					
Radar Ranging			Spud Date <b>18.10.73</b> Completion Date <b>19.10.73</b>					
Decca <sup>red</sup> <b>A18.50</b> <sup>green</sup> <b>E39.45</b> <sup>purple</sup> <b>A55.08</b>			Status <b>Uncompleted</b> Final Depth bs.b. <b>17.00m</b>					
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Lithological Description	Casing	Electric Logs	Remarks
Recent								
LOWER JURASSIC	LIAS	10						CLAY, gray with ophiroid ossicles.
		20						
		30			END OF BOREHOLE			
		40						
		50						

Borehole No	73/58	Area	L u n o y	Block No	104 - 23
Latitude	51° 12.09	I.G.S		regd No	51/05/448
Longitude	4° 34.68	Water Depth		39 - 44	Rig Whitethorn
Other Position Fixing Methods		Objectives		S t r a t i g r a p h i c	
Radar Ranging		Spud Date		22.10.73	Completion Date 24.10.73
Decca red 186.78 green F35.19 purple H78.60		Status Completed		Final Depth bs.b. 24.50m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
CENT R E C E N T  P L E I S T O C E N E  T E R T I A R Y						<u>SAND</u> , medium, shelly, gravelly.			
		10				<u>GRAVEL</u> with a grey clay containing small stones.			
						<u>LIGNITE</u> , dk brown or black, banded with intercalated clay bands.			
		20				END OF BOREHOLE			
		30							
		40							
		50							

Borehole No	73 / 59	Area	L u n d y	Block No	104 - 17
Latitude	51° 23.25 N	I.G.S. regd No 51/05/449			
Longitude	4° 44.86 W	Water Depth 58 - 65m Rig Whitethorn			
Other Position Fixing Methods		Objectives s t r a t i g r a p h i c			
R a d a r R a n g i n g		Spud Date 26.10.73 Completion Date 29.10.73			
Occured <sup>(G)</sup> green F47.72 purple I70.90		Status Completed Final Depth bs.b. 50.20m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL			
P E R M I A N		10							Hole 72/41 drilled on same site but hole terminated at 3.50m.
		20				MUDSTONE, SILTSTONE AND SANDSTONE, variegated with occasional coal layers.			
		30							
		40							
? PERMIAN / TRIASSIC		50				MUDSTONE, red-brown, calcareous.			
						END OF BOREHOLE			


Borehole No	73 / 60	Area	L u n o y	Block No	104 - 17
Latitude	51° 24.93 N	I.G.S. regd No 51/05/450			
Longitude	4° 44.80 W	Water Depth 56.5 - 62.5 Rtg Whitethorn			
Other Position Fixing Methods			Objectives S t r a t i g r a p h i c		
R a d a r R a n g i n g			Spud Date 29.10.73. Completion Date 30.10.73		
Oecca. (16) green F47.86 purple I74.90			Status Completed Final Depth bs.b. 21.0m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT				X		SAND AND GRAVEL			Biostratigraphy: Age - Late Triassic to early Cretaceous
PLEISTOCENE				X		TILL, red-brown, stiff with small round pebbles.			
PERMIAN/TRIASSIC		10		X		MUDSTONE, red-brown with gypsum			
		20				END OF BOREHOLE			
		30							
		40							
		50							

Borehole No	73 / 61	Area	L u n d y	Block No	104 - 25
Latitude	51° 17' 75" N	I.G.S. regd No 51/05/451			
Longitude	4° 6' 26" W	Water Depth 35 - 41.5m Rig Whitethorn			
Other Position Fixing Methods		Objectives S t r a t i g r a p h i c			
Radar Ranging		Spud Date 30.10.73 Completion Date 1.11.73			
Decm (18) green D45.40 purple J66.80		Status Completed Final Depth bs.b. 42.5m			





Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
J u r a s s i c		10				SILTSTONE and MUDESTONE grey brown stibb. very calcareous.			
		20				LIMESTONE pale grey, calcarenite.			
		30							
		40							
		50				END OF BOREHOLE			

Borehole No	73/63	Area	L u n d y	Block No	104-20
Latitude	51° 19.73 N	I.G.S. regd No 51/05/452			
Longitude	4° 6.09 W	Water Depth 47.5 - 51.0m Rig Whitethorn			
Other Position Fixing Methods	Objectives s t r a t i g r a p h i c				
Radar Ranging		Spud Date 3.11.73 Completion Date 5.11.73			
Deca-red A19.85 green D46.65 purple J73.32		Status Completed Final Depth bs.b. 37.60m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						COBBLES			
J U R A S S I C		10				MUDSTONE gray, hard			
		20							
		30							
		40				END OF BOREHOLE			
		50							



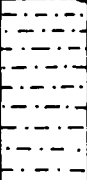

Borehole No		73 / 64		Area		L u n o y		Block No		104 - 13	
Latitude						51° 31.68 N					
Longitude						4° 26.3 W					
Other Position Fixing Methods						I.G.S. regd No 51/05/454					
Radar Ranging						Water Depth 27 - 32 m Rig White thorn					
Objectives						S t r a t i g r a p h i c					
Spud Date 6.11.73						Completion Date 7.11.73					
Dacca (18) green F31.94 purple J78.34						Status Completed Final Depth bs.b. 18.8 m					
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks		
P L E I S T O C E N E - R E C E N T						<u>SAND</u> brown, med - fine grain size.					
		10				<u>CORALS</u> , angular to sub-rounded.					
						<u>LIMESTONE AND GAG. MUONSTONE</u>					
Lower Siannurion											
		20				END OF BOREHOLE					
		30									
		40									
		50									

Borehole No	74/26	Area	L u n d y	Block No	104-24
Latitude	51° 14.79 N	I.G.S. regd No 51/05/467			
Longitude	4° 21.52 W	Water Depth 44-50m Rig Whitothern			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 11.9.74 Completion Date 12.9.74			
Decca red 111.87 green E40.42 purple I69.58		Status Completed Final Depth bs.b. 13.30m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent						GRAVEL, sandy coarse,			
PERMIAN / TRIASS	? KEUPER MARL	10				MARL, grey brown,			
		20				END OF BOREHOLE			
		30							
		40							
		50							



Borehole No	74 / 27	Area	L u n o y	Block No	104 - 18
Latitude	51° 28.7 N	I.G.S. regd No 51/05/468			
Longitude	4° 35.3 W	Water Depth 43 - 51 m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 14.9.74 Completion Date 15.9.74			
Deca red green F39.20 purple J62.70		Status Uncompleted Final Depth bs.b. 10.00 m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent						SAND, gravelly, slightly muddy.			
Flandrian						SILT, gray, plastic with possible gravel lenses.			
		10				END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No	74/28	Area	LUNDY	Block No	104 - 18
Latitude	51° 28.64 N	I.G.S. regd No 51/05/469			
Longitude	4° 35.15 W	Water Depth 43 - 51m Rig Whitehorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 17.9.74 Completion Date 18.9.74			
Decca red green F39.27 purple J62.74		Status Completed Final Depth bs.b. 14.30m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
CENT R E C E N T						<u>SAND</u> , gravelly and silty.			Biostratigraphy: Age - Lower Jurassic; Hettangian
		10				<u>MUDSTONE</u> , shaley grey with macrofossils.			
JURASSIC	LOWER LIAS					END OF BOREHOLE.			
		20							
		30							
		40							
		50							





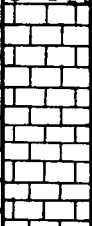

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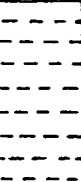
Borehole No 74 / 42		Area L u n o y		Block No 104 - 29				
Latitude 51° 2.68 N		I.G.S. regd No 51/05/470						
Longitude 4° 19.13 W		Water Depth 17.5 - 24.5 Rig Whitethorn						
Other Position Fixing Methods		Objectives Stratigraphic						
Radar Ranging		Spud Date 1.11.74 Completion Date 2.11.74						
Dacca green E32.67 purple H57.94		Status Completed Final Depth bs.b. 6.50m						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Lithological Description	Casing	Electric Logs	Remarks
Recent Carboniferous					MUDSTONE / SHALE frags. dk grey, cleaved, under sand.			
					SHALES / MUDSTONE, dk grey, fissile, cleaved, fine grained.			
					END OF BOREHOLE			
		10						
		20						
		30						
		40						
		50						

Borehole No		74 / 43		Area		L u n o y		Block No		104 - 23	
Latitude		51° 14.76 N		I.G.S		regd No		50/05/471			
Longitude		4° 29.70 W		Water Depth		46 - 54 m		Rig		Whitethorn	
Other Position Fixing Methods				Objectives		S t r a t i g r a p h i c					
Radar Ranging				Spud Date		2.11.74		Completion Date		3.11.74	
Decca green F30.39 purple I60.72				Status Completed		Final Depth bs.b.		15.00 m			
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks	
T E R T I A R Y R E C E N T						Sand, shells, pebbles of igneous rocks with slate fragments. Crs.-dine gr material				Unconformity	
		10				CLAY, brown sandy with lignite. Sand horizon at 6.50m - 8.00m.					
		20				E N D O F B O R E H O L E					
		30									
		40									
		50									

Borehole No <u>74/44</u>		Area <u>L u n o y</u>		Block No <u>104 - 18</u>					
Latitude <u>51° 23.72 N</u>		I.G.S. regd No <u>51/05/494</u>							
Longitude <u>4° 34.87 W</u>		Water Depth <u>45 - 51 m</u> Rig <u>Whithorn</u>							
Other Position Fixing Methods		Objectives <u>Stratigraphic</u>							
<u>Radar Ranging</u>		Spud Date <u>5.11.74</u> Completion Date <u>6.11.74</u>							
<u>Decca</u> <u>JA10.02</u> <u>green</u> <u>F37.76</u> <u>purple</u> <u>J50.90</u>		Status <u>Completed</u> Final Depth bs.b. <u>26.10 m</u>							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
R E C E N T		10				<u>Sand, pebbles, cobbles,</u> gravels occur as a bank of deposits.			
		20				<u>CLAY / MUDSTONE</u> , grey, with <u>SANDSTONES</u> fine - medium grained, lignitic clay, conglomerate partings.			Unconformity  (Fluvatile-deltaic sequence)
		30				END OF BOREHOLE.			
		40							
		50							

Borehole No	75/4	Area	L u n o y	Block No	104 - 18
Latitude	51° 27.79 N	I.G.S. regd No		51/05/501	
Longitude	4° 35.16 W	Water Depth		44 - 51 m Rig Whitehorn	
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 11.4.75		Completion Date 13.4.75	
Decca green F39.14 purple J60.54		Status Completed		Final Depth bs.b. 22.45m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY						SAND, fine - medium, grey-brown, some mud lumps.			Biostratigraphy: Age - lower Sarrassic; Hettangian to Sinemurian
						GRAVEL, sandy, subrounded to angular, well sorted.			
JURASSIC		10				MUDSTONE, grey, v. calcareous, interbedded with Limestone, fine pale grey.			LIMESTONE, pale grey, v. b. grained,
						MUDSTONE as above			
						MUDSTONE, calcareous and micritic Limestone interbedded.			
						LIMESTONE as above interbedded with pale grey micrite			
		20				MUDSTONE LIMESTONE, interbedded			
						END OF BOREHOLE			
		30							
		40							
		50							

Borehole No 75 / 8		Area L u n d y		Block No 104 - 18					
Latitude 51° 29.90 N		I. G. S regd No 51 / 05 / 515							
Longitude 4° 35.03 W		Water Depth 42.5 - 36 m Rtg Whitethorn							
Other Position Fixing Methods		Objectives Stratigraphic							
Radar Ranging		Spud Date 28.4.75 Completion Date 29.4.75							
Deca green F39.41 purple J65.61		Status Uncompleted Final Depth bs.b. 21.75m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
R E C E N T		10				SAND, gravel with shell fragments and abundant pebbles.			Biostratigraphy: Age - Late Triassic; Rhaetian or ? Norian
LATE TRIASSIC		20				CLAY limestone alternations grey.			
		30				END OF BOREHOLE			Terminated due to bad weather.
		40							
		50							



Borehole No 75 / 12		Area L u n d y		Block No 104 - 18				
Latitude 51° 26.33 N			I.G.S regd No 51/55/524					
Longitude 4° 35.26 W			Water Depth 40 - 47.5m Rig Whitethorn					
Other Position Fixing Methods			Objectives Stratigraphic					
Radar Ranging			Spud Date 10.5.75 Completion Date 11.5.75					
Dacca red A10.59 green F38.95 purple J56.94			Status Uncompleted Final Depth bs.b. 17.0 m					
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Lithological Description	Casing	Electric Logs	Remarks
RECENT AND FLANDRIAN		10			SAND passing down into gravel bed about 5m thick.			Biostratigraphy: Age - Indeterminate
	PERMIAN? KEUPER TRIASSIC? MARL	20			Mudstone, reddish-brown.			hole abandoned due to cave in.
		30			END OF BOREHOLE			
		40						
		50						

Borehole No	75 / 13	Area	L u n o y	Block No	104 - 18
Latitude	51° 21.00 N	I.G.S		regd No 51/05/525	
Longitude	4° 35.00 W	Water Depth 53 - 58.5m Rig Whitethorn			
Other Position Fixing Methods		Objectives			
Radar Ranging		Stratigraphic			
		Spud Date 11.5.75 Completion Date 12.5.75			
Deca red A 9.19 green F37.43 purple I 73.61		Status Uncompleted Final Depth bs.b. 1.60m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent				X					Sand, brown, med - Crs gravel
Jurassic						END OF BOREHOLE			Mudstone, green grey, with shell debris and limestone bands.
		10							Hole abandoned due to strong tides.
		20							
		30							
		40							
		50							

Borehole No		75 / 14		Area		L u n d y		Block No		104 - 23	
Latitude		51° 18.19 N		I.C.S		regd No		51/55/526			
Longitude		4° 34.89 W		Water Depth		47.5 - 53.5m		Rig		Whitethorn	
Other Position Fixing Methods				Objectives		Stratigraphic					
Radar Ranging				Spud Date		15.5.75		Completion Date		16.5.75	
Decca red		A 8.46		green		36.87		purple		I 66.15	
Status		Uncompleted		Final Depth		bs.b.		17m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND, coarse.			Hole abandoned due to very coarse nature of gravels up to 22cm diameter.
PLEISTOCENE		10				GRAVEL, poorly sorted with thin silty clay beds at 12m, 12.9m and 14.9m.			
		20				END OF BOREHOLE			
		30							
		40							
		50							

Borehole No	75 / 16	Area	L u n d y	Block No	104 - 23
Latitude	51° 20' 26" N	I.G.S	regd No 51 / 05 / 552		
Longitude	4° 24' 68" W	Water Depth	47 - 52 m	Rig Whitethorn	
Other Position Fixing Methods			Objectives	S t r a t i g r a p h i c	
R a d a r   R a n g i n g		Spud Date	20.5.75	Completion Date 21.5.75	
Decca	red A 12.40	green E 45.11	purple J 52.20	Status	Uncompleted
		Final Depth bs.b.		13.10 m	





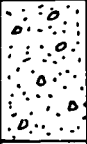
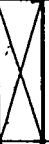


Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Pleistocene				X		CLAY, brown, firm with small pebbles.			
JURASSIC		10		X		CLAYSTONE and MUDESTONE, variegated, predominantly greeny grey with reddish, greenish and purplish mottling.			
		20				END OF BOREHOLE			Hole terminated due to cave in.
		30							
		40							
		50							

Borehole No		75 / 18		Area		LUNDY		Block No		104 - 18	
Latitude		51° 22' 81" N		I.G.S		regd No		51 / 05 / 584			
Longitude		4° 24' 73" W		Water Depth		50 - 55 m		Rig		Whitethorn	
Other Position Fixing Methods				Objectives		Stratigraphic					
Radar Ranging				Spud Date		28.5.75		Completion Date		29.5.75	
Deca red A13.08		green E46.20		purple J59.8		Status Completed		Final Depth bs.b.		6.30 m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks	
HOLOCENE			20.20 20.20 20.20	X		GRAVEL, fine, very shelly with medium sand.					
JURASSIC						MUDSTONE, brown with grey/green bands towards base calcareous, bedding horizontal.					
						END OF BOREHOLE					
		10									
		20									
		30									
		40									
		50									

Borehole No	75 / 19	Area	L u n o y	Block No	104 - 23
Latitude	51° 17.52' N	I.G.S		reqd No	51/05/585
Longitude	4° 30.03' W	Water Depth		50 - 55.4 m Rig Whitethorn	
Other Position Fixing Methods		Objectives		Stratigraphic	
Radar Ranging		Spud Date		30.5.75 Completion Date 31.5.75	
Deca red 149.70 green F31.82 purple I 69.20		Status		Completed Final Depth bs.b. 15.8 m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
HOLOCENE						GRAVEL, fine with medium to coarse sand.			
JURASSIC						MUDSTONE, dk gray, calcareous.			LIMESTONE, pale gray, argillaceous, with thin calcite veins.
						MUDSTONE, grey, glauconitic			
						MUDSTONE, grey+argillaceous pale gray Limestone			
		10				MUDSTONE, grey, calcareous with belemnites and pale gray indurated argillaceous Limestones.			
		20				END OF BOREHOLE			
		30							
		40							
		50							

Borehole No	75/20	Area	L u n o n y	Block No	103-25
Latitude	51° 11' 68" N	I.G.S. regd No		51/06/405	
Longitude	5° 4' 35" W	Water Depth		68-72 m Rig Whitethorn	
Other Position Fixing Methods		Objectives			
Radar Ranging		Spud Date 1.6.75 Completion Date 2.6.75			
Draught A 01.30 green H 32.70 purple H 56.64		Status Completed Final Depth bs.b. 12.85 m			





Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY						<u>SHELLY GRAVEL</u>			
						<u>CLAY</u> , silty, calcareous.			
TERTIARY?						Gravel and coarse sand with thin band of light and dark clay.			
		10				<u>CLAY</u> , brown-white, silty, plastic.			
						END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No		75 / 21		Area		L u n o y		Block No		104 - 23	
Latitude		51° 18.22 N		I.G.S		regd No		51 / 05 / 593			
Longitude		4° 24.58 W		Water Depth		49 - 54m		Rig		Whitethorn	
Other Position Fixing Methods				Objectives		S t r a t i g r a p h i c					
Radar Ranging				Spud Date		5.6.75		Completion Date		6.6.75	
Dacca red A11.82 green E44.61 purple I77.10				Status		Uncompleted		Final Depth bs.b.		8.0m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL AND SAND.			
JURASSIC						MUDSTONE, gray, calcareous			
		10				END OF BOREHOLE			Hole terminated due to ship moving.
		20							
		30							
		40							
		50							



Borehole No	75/22	Area	L u n o y	Block No	104 - 20
Latitude	51° 20 . 67 N	I.G.S		reg'd No	51/05/594
Longitude	4° 8 . 64 W	Water Depth		43 - 48.5 m	Rig Whitehorn
Other Position Fixing Methods		Objectives		Stratigraphic	
Radar Ranging		Spud Date		6.6.75	Completion Date 7.6.75
Datta red A19.35 green E30.65 purple J72.90		Status		Completed	Final Depth bs.b. 9.0 m





Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent						SAND, fine to coarse, yellow brown.			
JURASSIC						MUDSTONE grey, silty, calcareous, fossiliferous.			
		10				END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No 75/23		Area LUNDY		Block No 104-18				
Latitude 51° 24.42 N		I.G.S. regd No 51/05/595						
Longitude 4° 24.64 W		Water Depth 43 - 49 m Rig Whitehorn						
Other Position Fixing Methods		Objectives Stratigraphic						
Radar Ranging		Spud Date 8.6.75 Completion Date 9.6.75						
Decca red A13.44 green E46.51 purple J62.56		Status Completed Final Depth bs.b. 6.5 m						
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Lithological Description	Casing	Electric Logs	Remarks
PERMANENT TASSIC					SAND, med - cgs passing down into a thin cgs gravel layer			
	KEUPER MARL				MARL chocolate brown with green gray beds.			
					END OF BOREHOLE			
		10						
		20						
		30						
		40						
		50						



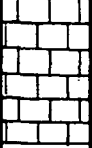
Borehole No	75 / 24	Area	Lu n o y	Block No	104 - 17
Latitude	51° 28.41 N	I.G.S. regd No		51 / 05 / 597	
Longitude	4° 44.92 W	Water Depth		52 - 58 m Rig Whitethorn	
Other Position Fixing Methods		Objectives		Stratigraphic	
Radar Ranging		Spud Date		10.6.75 Completion Date 11.6.75	
Decca red A 8.45 green G 30.45 purple J 52.37		Status		Uncompleted Final Depth bs.b. 7.8 m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
Recent				X		SAND, coarse with gravel			
Pleistocene				X		CLAY, laminated			
PERMIAN TRIASSIC						MUDSTONE, brick red with some greenish areas.			
		10				END OF BOREHOLE			Hole terminated due to blocky strata.
		20							
		30							
		40							
		50							

Borehole No 75/25 / 73/33 Area L u n d y		Block No 104 - 16	
Latitude 51° 27.65 N		I.C.S. regd No 51/05/598	
Longitude 4° 54.93 W		Water Depth 62 m Rig Whitethorn	
Other Position Fixing Methods		Objectives S t r a t i g r a p h i c	
Radar Ranging		Spud Date 12.6.75 Completion Date 13.6.75	
Dacca red A5.96 green 440.03 purple I 71.92		Status Uncompleted Final Depth bs.b. 9.10m	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
J u r a s s i c ? RECENT						SAND, silty muddy			
						LIMESTONE grey, muddy, fine with bands of gray marl.			73/33 abandoned at 2.50m due to bad weather.
		10				END OF BOREHOLE			73/25 abandoned when ship moved.
		20							
		30							
		40							
		50							

Borehole No	75 / 26	Area	L u n o y	Block No	103 - 20
Latitude	51° 23.27 N	I.G.S. regd No 51/56/415			
Longitude	5° 4.21 W	Water Depth 65 - 71 m Rig Whitethorn			
Other Position Fixing Methods		Objectives S t r a t i g r a p h i c			
Radar Ranging		Spud Date 13.6.75 Completion Date 15.6.75			
Desca red A3.30 green H31.37 purple I54.99		Status Completed Final Depth bs.b. 10.40 m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT				X		SAND, brown grey, silty with shell debris.			
Stained Jurassic				X		MUDSTONE, reddish brown fissile.			
JURASSIC		10		X		LIMESTONE muddy gray, bioclastic, pyritic with dk gray mudstone			Strong ebb tide caused many drilling delays.
						END OF BOREHOLE			
		20							
		30							
		40							
		50							

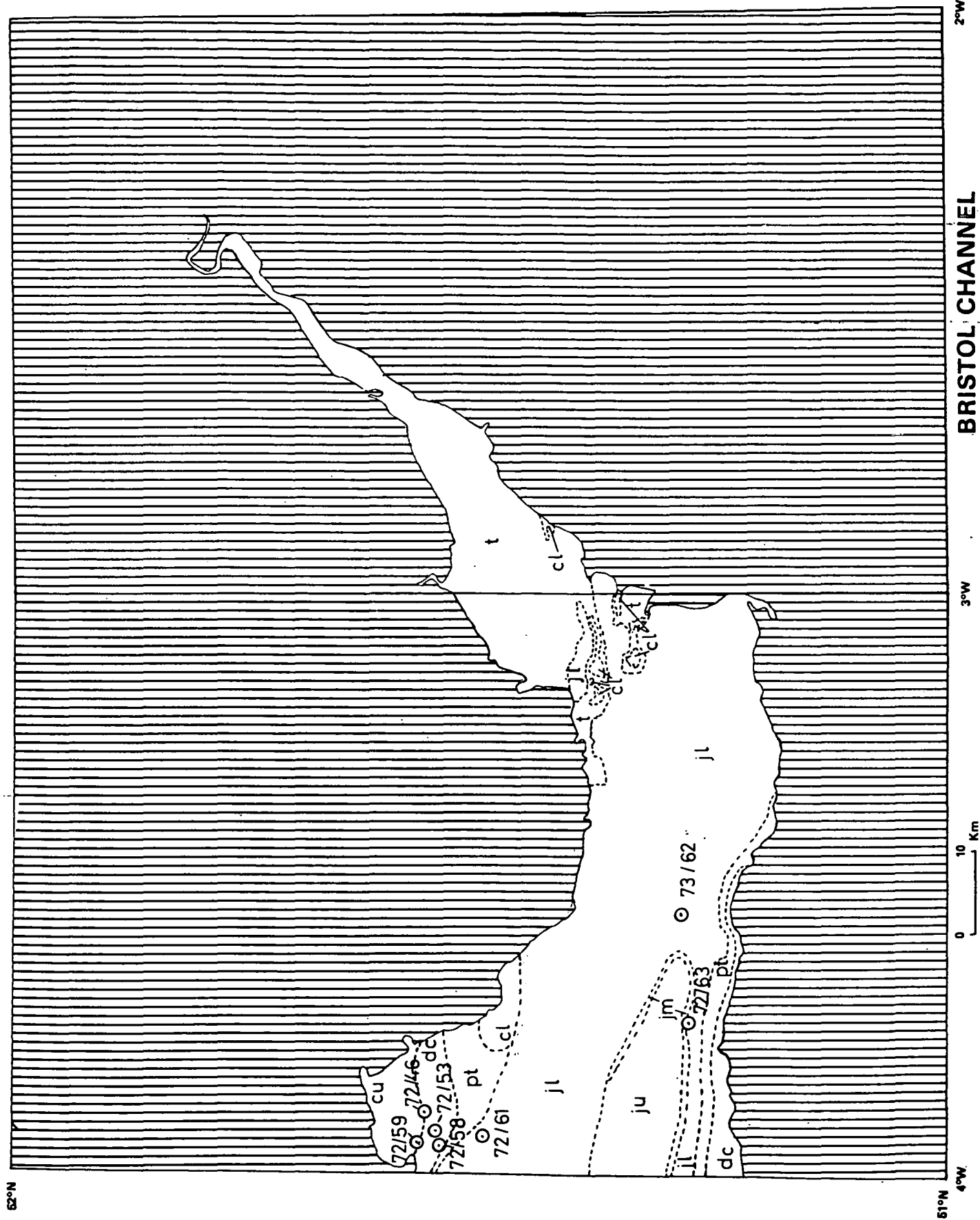


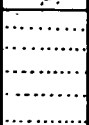



fig 10

Borehole No	72 / 46	Area	BRISTOL CHANNEL	Block No	105 - 11
Latitude	51° 33.36 N	I.G.S. regd No 51/04/1			
Longitude	3° 53.86 W	Water Depth 16 - 20 M Rig Whitathorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 29.8.72 Completion Date 30.8.72			
Dacca green D42.75 purple B65.75		Status Completed Final Depth bs.b. 11.75 m			


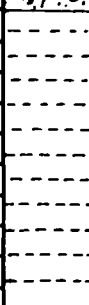


Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
QUATERNARY						SAND, muddy with oyster shells at top, becoming poorly sorted with fine gravel with depth.			
		10				SANDSTONE, grey, fine grained sl micaceous. dip 45°			
						END OF BOREHOLE			
		20							
		30							
		40							
		50							

Borehole No		72/53		Area		BRISTOL CHANNEL		Block No		105 - 11			
Latitude				51° 32.66' N				I.G.S. regd No				51/04/2	
Longitude				3° 55.68' W				Water Depth				20 - 27.5m	
Other Position Fixing Methods								Rig				Whitethorn	
Other Position Fixing Methods				Radar Ranging				Objectives				Stratigraphic	
								Spud Date				10.9.72	
								Completion Date				12.9.72	
Dacca				green D43.84				purple B61.65				Status Completed	
								Final Depth bs.b.				11.70m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks			
RECENT						SAND and GRAVEL with scattered pebbles.							
						CLAY, brownish grey							
CARBONIFEROUS		10				MUDSTONE, gray.							
						END. OF BOREHOLE							
		20											
		30											
		40											
		50											



Borehole No	72/58	Area	BRISTOL CHANNEL	Block No	105-11
Latitude	51° 32.49N	I.C.S. ragd No 51/04/3			
Longitude	3° 57.26W	Water Depth 23-30m Rig Whitethorn			
Other Position Fixing Methods		Objectives Stratigraphic			
Radar Ranging		Spud Date 20.9.72 Completion Date 21.9.72			
Decca red B4.40 green P44.70 purple B58.75		Status Completed Final Depth bs.b. 22.50m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						SAND and GRAVEL			
QUATERNARY		10				CLAY grey, silty, plastic, poorly laminated.			
CARBONIFEROUS		20				MUDSTONE grey, micaceous.			
		30				END OF BOREHOLE			
		40							
		50							

Borehole No		72/59		Area		BRISTOL CHANNEL		Block No		105 - 11	
Latitude		51° 33.79 N		I.C.S. regd No		51/04/8		4			
Longitude		3° 56.92 W		Water Depth		18.6 - 27.6 m		Rig		Whitethorn	
Other Position Fixing Methods				Objectives		Stratigraphic					
Radar Ranging				Spud Date		22.9.72		Completion Date		24.9.72	
Decca red B4.90		green D45.01		purple B61.54		Status Completed		Final Depth bs.b.		43 m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks	
R E C E N T		10				SAND and GRAVEL					
						muddy medium-fine sand with coarse gravel at base.					
P O S T G L A C I A L		20				CLAY,					
						brown-grey, laminated, silty, plastic.					
C A R B O N I F E R O U S		40				MUDSTONE,					
						gray, shaly					
		50				END OF BOREHOLE					

Borehole No 72/61		Area BRISTOL CHANNEL Block No 105 - 16							
Latitude 51° 29.63N		I.G.S. regd No 51/04/5							
Longitude 3° 56.21W		Water Depth 22.6 - 31.6m Rig Whitethorn							
Other Position Fixing Methods		Objectives Stratigraphic							
Radar Ranging		Spud Date 25.9.72 Completion Date 26.9.72							
Decca red B4.21 green D42.66 purple B54.62		Status Completed Final Depth bs.b. 7.50m							
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
RECENT						GRAVEL, sandy, poorly sorted.			
PLEISTOCENE						Boulder CLAY, stiff, sandy in parts, chocolate grey colour.			
						SILTSTONE, grey, green, muddy.			
JURASSIC						END OF BOREHOLE			
		10							
		20							
		30							
		40							
		50							

Borehole No		72/63		Area		BRISTOL CHANNEL		Block No		105 - 22							
Latitude				51° 16.59 N				I.G.S. regd No				51/04/6					
Longitude				3° 44.29 W				Water Depth				30.5 - 35 m Rig Whitethorn					
Other Position Fixing Methods								Objectives				Stratigraphic					
Radar Ranging								Spud Date				30.9.72 Completion Date		1.10.72			
Decca <sup>18</sup>				green C45.38				purple A63.96				Status Completed Final Depth bs.b.				8.50 m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description				Casing	Electric Logs	Remarks					
JURASSIC	UPPER LIAS					<u>SILTSTONE</u> pale gray, calcareous, Occ well laminated dip 5-10°.											
		10				END OF BOREHOLE											
		20															
		30															
		40															
		50															

Borehole No <b>73/62</b>		Area <b>BRISTOL CHANNEL</b> Block No <b>105 - 23</b>	
Latitude <b>51° 17.15' N</b>		I.G.S. regd No <b>51/04/244</b>	
Longitude <b>3° 33.15' W</b>		Water Depth <b>29 - 34m</b> Rig <b>Whitethorn</b>	
Other Position Fixing Methods		Objectives <b>Stratigraphic</b>	
<b>Radar Ranging</b>		Spud Date <b>1.11.73</b> Completion Date <b>3.11.73</b>	
Deca <b>18</b> green <b>C38.18</b> purple <b>B51.92</b>		Status <b>Completed</b> Final Depth bs.b. <b>11.75m</b>	

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
PLEISTOCENE RECENT						<u>SILT</u> , pale brown, fine, calcareous.			
JURASSIC Bajocian - Callovian						<u>LIMESTONE</u> , gray, calcareous,			
JURASSIC Toarcian - Aalenian		10				<u>MUDSTONE</u> green-gray, fine, sl. calcareous, Toarcian - Aalenian			
		20				END OF BOREHOLE			
		30							
		40							
		50							

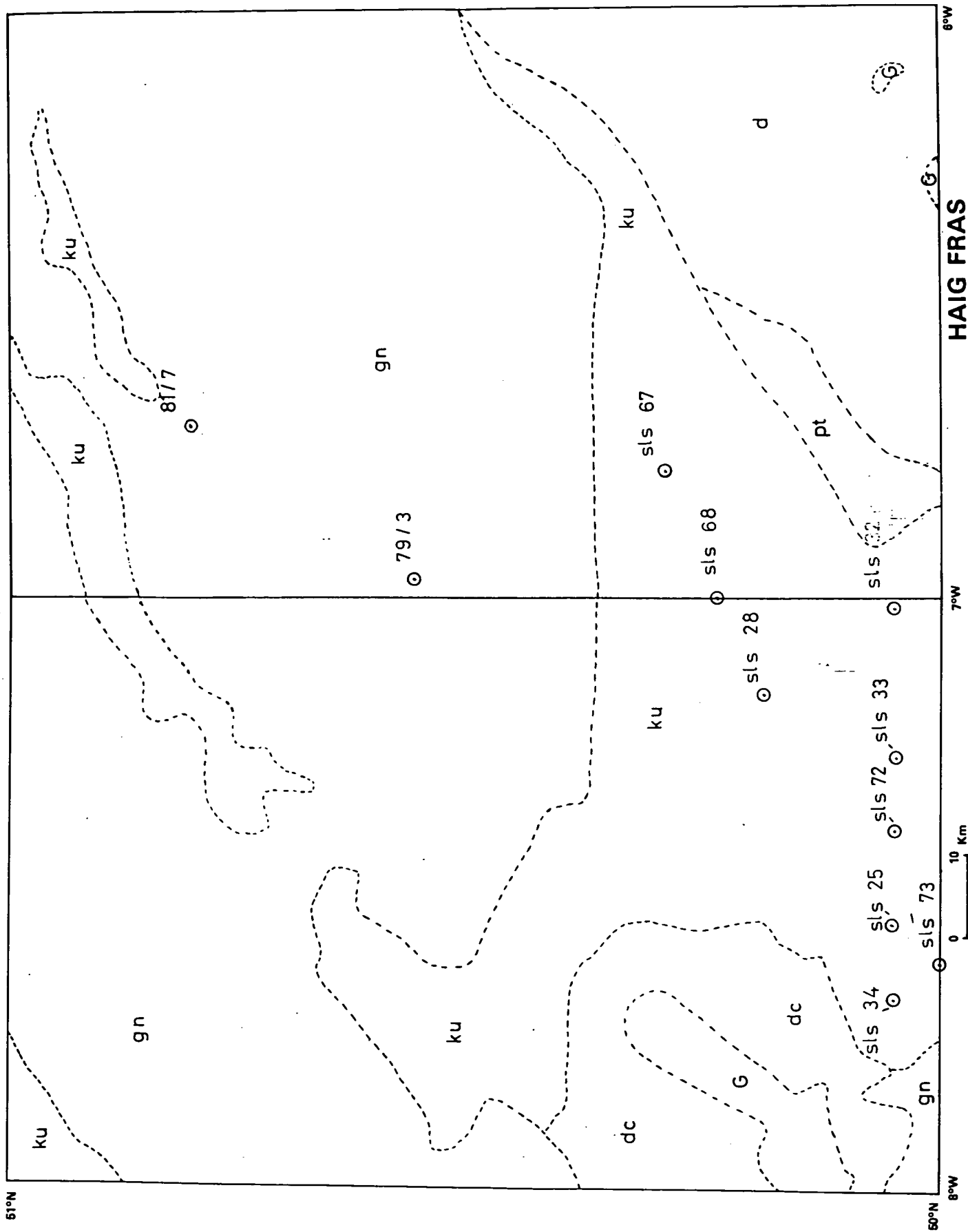

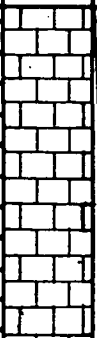
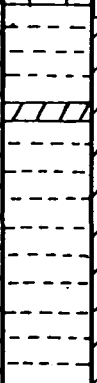


fig 11

Borehole No	545 25	Area	H A I G F A R S	Block No	92 - 28
Latitude	50° 03.13 N	I.G.S. regd No 50/08/242			
Longitude	7° 33.00 W	Water Depth 112 - 116 m Rig SEA LAB			
Other Position Fixing Methods			Objectives Stratigraphic		
		Spud Date 31.5.76 Completion Date 2.6.76			
		Status Completed Final Depth bs.b. 99.84 m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
U P P E R C R E T A C E O U S						<u>CHALK</u>			Biostratigraphy: Age: Indeterminate

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS		50							
		60				<u>CHALK</u>			
		70							
		80							
PERMIAN / TRIASSIC		90				<u>MUDSTONE,</u> red → green with thin limestone, dolomite and dark shale.			
		100				END OF BOREHOLE			

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AREA HAIG FRAS

SUMMARISED BOREHOLE LOG

Ref.	Author
50/08/242	M. Parkin



IGS 1284 1000 1/75

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks		
PERMO - TRIAS	Aptian - Albian	50				<u>LIMESTONE</u> , light grey to cream calcarenite.					
						60					
						70					
PERMO - TRIAS	Aptian - Albian	80				<u>MUDSTONE</u> red/brown with grey green silty bands.					
		90				END OF BOREHOLE					
		100									

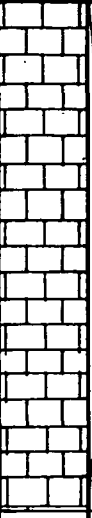
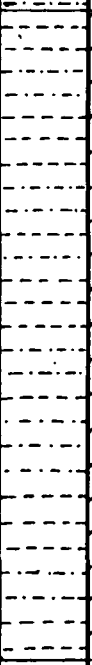
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AREA HAIG FAS

SUMMARISED BOREHOLE LOG


Ref.	Author
50/08/246	M. Parkin



Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
U P P E R C R E T A C E O U S		50				<u>CHALK</u>			
		60							
P E R M I A N / T R I A S S I C		70				<u>SILTSTONE</u> and <u>MUDSTONE</u> , red-brown with some greenish grey bands.			<u>SILTSTONE</u> , grey-green glauconitic, micaceous, argillaceous.
		80							
		90				END OF BOREHOLE			
		100							

INSTITUTE OF GEOLOGICAL SCIENCES	
AREA HAIG FRAS	
SUMMARISED BOREHOLE LOG	
Ref.	Author
50/0B/244	M. Parkin

Borehole No	54533	Area	H A I G F A A S	Block No	92 - 29
Latitude	50° 2.86 N	I.G.S. regd No 50/58/243			
Longitude	7° 16.15 W	Water Depth	112 m	Rig	SEA LAB
Other Position Fixing Methods	Objectives Stratigraphic				
		Spud Date	2.6.76	Completion Date	5.6.76
		Status	Completed Final Depth bs.b. 120.6 m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
U P P E R C R E T A C E O U S						CHALK, white with flints			Biostratigraphy: Age - Indeterminate
		10							
		20							
		30							
		40							
		50							


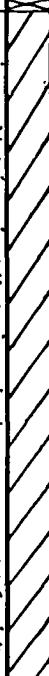
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palæo	Lithological Description	Casing	Electric Logs	Remarks
U P P E R C R E T A C E O U S		50				CHALK white with flints.			
		60							
		70							
		80							
		90							
		100							

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AREA HAIG FRAS

SUMMARISED BOREHOLE LOG

Ref.	Author
50/58/243	M. Parkin

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
LOWER CRETACEOUS		100				CHALK			
		110				SAND, green, glauconitic, with patches of gray green.			
		120				END OF BOREHOLE			
		130							
		140							
		150							

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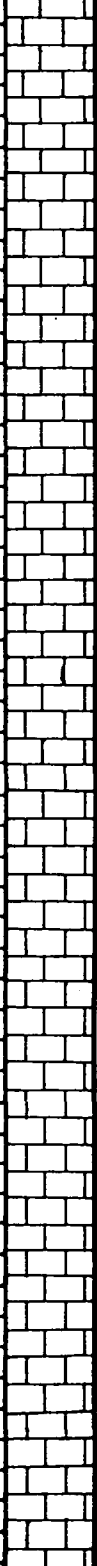
AREA HAIG FRS

SUMMARISED BOREHOLE LOG

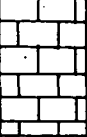
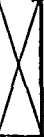


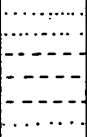

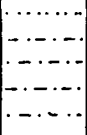

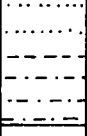



Ref.	Author
50/68/243	M. PARKIN

IGS 1284 1000 1/75

Borehole No	SLS 34	Area	HAIG FRA S	Block No	92 - 27
Latitude	50° 3 . 00 N	I.G.S regd No 50/58/241			
Longitude	7° 40 . 61 W	Water Depth 116 - 120 M Rig SEA LAB			
Other Position Fixing Methods	Objectives Stratigraphic				
		Spud Date 29.5.76 Completion Date 31.5.76			
		Status Completed Final Depth bs.b. 77.10m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
U P P E R		10 20 30 40 50				<u>CHALK</u>			



Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS		50				<u>CHALK</u>			
PERMIAN / TRIASSIC		60				<u>MUDSTONE, SILTSTONE, SANDSTONE</u> red - green and grey with some gypsum.			
		70							
		80				END OF BOREHOLE			
		90							
		100							

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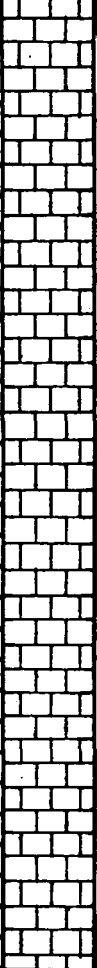
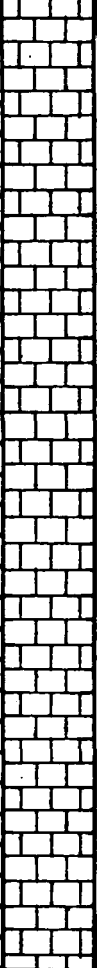
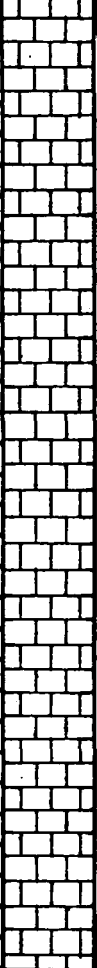
AREA HAIG FRAS

SUMMARISED BOREHOLE LOG

Ref.	Author
50/58/241	M. Parkin

Borehole No	SLS 67	Area	HAIG FRAS	Block No	93 - 22
Latitude	50° 17.66 N	I.G.S. regd No 50/07/251			
Longitude	6° 47.15 W	Water Depth	100m	Rig	SEA LAB
Other Position Fixing Methods	Objectives stratigraphic				
		Spud Date	7.6.76	Completion Date	10.6.76
		Status	Completed Final Depth bs.b. 94 m		

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS									Biostratigraphy: Age - Indeterminate
		10							
		20							
		30							
		40							
		50							

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS		50				<u>CHALK</u>			
		60							
PERMIAN / TRIASSIC		70							
	80								
	90								
	100					END OF BOREHOLE.			



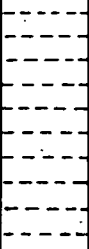

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AREA HAIG FARS

SUMMARISED BOREHOLE LOG

Ref.	Author
50/57/251	M. Parkin

Borehole No		SLS 68		Area H A I A F A A S		Block No		93 - 21	
Latitude				50° 14.37 N		I.G.S regd No 50/07/252			
Longitude				6° 59.95 W		Water Depth		110 m Rig SEA LAB	
Other Position Fixing Methods				Objectives Stratigraphic					
				Spud Date 2.8.76 Completion Date 4.8.76					
				Status Completed Final Depth bs.b. 105 m					
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
U P P E R  C R E T A C E O U S									Biogeostratigraphy: Age - Upper Cretaceous (26-38.5, 51.09m) Age - Indeterminate (104m)

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS		50				<u>CHALK</u> white to pale grey. hard.			
		60							
		70							
		80							
		90							
		100							
PERMIAN/TRIASSIC						<u>MUONSTONE</u> , red, calcareous, green reduction spots.			
						END OF BOREHOLE			


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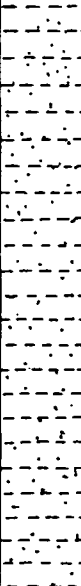
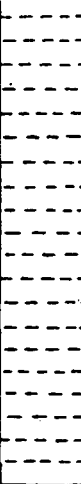
AREA HAIG FRAS

SUMMARISED BOREHOLE LOG

Ref.	Author
50/07/252	M. Parkin

Borehole No	SLS 72	Area	H A 1 G	F A A S	Block No	92 - 29
Latitude	50° 2.97 N	I.G.S. regd No 50/08/245				
Longitude	7° 23.58 W	Water Depth	116.50 m	Rig	SEA LAB	
Other Position Fixing Methods		Objectives Stratigraphic				
		Spud Date 20.7.76 Completion Date 22.7.76				
		Status Completed Final Depth bs.b. 110 m				

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
U P P E R  C R E T A C E O U S						CHALK white, soft.			Biostratigraphy: Age - Lower Cretaceous; Aptian to early Albian (75.7 - 78.5 m) Age - Indeterminate (94.4 - 97.5) Age - Triassic; (?) Norian to Rhaetian (97.6 - 110 m)
		10							
		20							
		30							
		40							
		50							

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS		50				<u>CHALK</u> white, soft.			
LOWER CRETACEOUS		80				<u>CLAY and SAND</u> green, micaceous... glaucousitic APTIAN - ALBIAN			
TRIASSIC; (?) NORMAN TO RHÆTIAN		100				<u>MUDSTONE</u> , dark grey and red brown.			

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AREA HAIG FRRS

SUMMARISED BOREHOLE LOG

Ref.	Author
50/08/245	M. Parkin

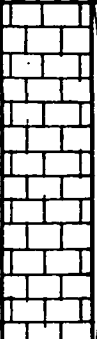
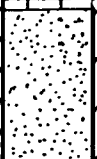
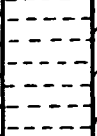
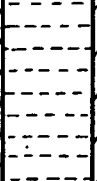
IGS 1284 1000 1/75 110.

END OF BOREHOLE

Borehole No	SLS 73	Area	HAIG FRAS	Block No	92 - 28
Latitude	50° 0.00 N	I.G.S. regd No 50/08/240			
Longitude	7° 36.95 W	Water Depth	117m	Rig	SEA LAB
Other Position Fixing Methods		Objectives Stratigraphic			
		Spud Date 7.8.76 Completion Date 8.8.76			
		Status Completed Final Depth bs.b. 80.95m			

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS		<div> <div></div> <div>10</div> <div></div> <div>20</div> <div></div> <div>30</div> <div></div> <div>40</div> <div></div> <div>50</div> </div>				CHALK, pale grey to white			



Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
UPPER CRETACEOUS		50				<u>CHALK</u> pale grey to white			
LOWER CRETACEOUS		60				<u>SAND</u> , green, glauconitic			
		70				<u>CLAY</u> , grey black, sandy.			
? PERMAN/TRIASSIC		80				<u>MUDSTONE</u> gray green - red, micaceous.			
		90				END OF BOREHOLE			
		100							

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AREA HAIG FARMS

SUMMARISED BOREHOLE LOG

Ref.

Author

50/08/240

M. Parkin

Borehole No	79/3	Area	H A I G	F R A S	Block No	93 - 11
Latitude	50° 33.79 N	I-G-S regd No 50/07/456				
Longitude	6° 58.13 W	Water Depth 106 m Rig SURVEYOR				
Other Position Fixing Methods		Objectives Stratigraphic				
Dacca <sup>10</sup> red 14.35 green F30.64 purple E60.59		Spud Date 3/8/79 Completion Date 4/8/79				
		Status Uncompleted Final Depth bs.b. 76.2 m				

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
T E R R I T O R Y		10				<u>SANDSTONE</u> gray green, fine to medium grained hard with bioclastic debris.			
		20				<u>SAND</u> gray green, loose, very fine to fine, glauconitic.			
		30							
		40				<u>CLAY</u> , pale green, micaceous with harder sandy calcareous bands.			
		50							

Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description	Casing	Electric Logs	Remarks
M I O C E N E		50				<u>CLAY</u> pale green; micaceous with harder sandy calcareous bands.			Abandoned due to bad weather.
		60							
		70							
		80				END OF BOREHOLE			
		90							
		100							

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AREA HAIG FRS

SUMMARISED BOREHOLE LOG

Ref.	Author
50/07/456	M. Parkin

Borehole No		81/7		Area		HAIG FRAS		Block No		93 - 17			
Latitude		50° 48.13 N				I.G.S. regd No 50/07/461							
Longitude		6° 42.75 W				Water Depth		94m		Rig MARINER			
Other Position Fixing Methods						Objectives						Stratigraphic	
SAT NAV						Spud Date 31.5.81						Completion Date 1.6.81	
Dacca MAIN CHAIN						Status Uncompleted						Final Depth bs.b. 45.5m	
Age	Form <sup>n</sup>	Depth Drilled m	Graphic Log	Cores	Palaeo	Lithological Description		Casing	Electric Logs	Remarks			
QUATERNARY						CLAY, gray with pebbles							
						Till?							
TERTIARY		10				MUDSTONE and SAND interbedded							
						sand, green with glauconite, mica, lignite, pyrite, laminae of brown clay.							
						mudstone, green with glauconite mica, lignite.							
UPPER CRETACEOUS		20				CLAY gray green, to brown, chert + flint fragments.							
						CHALK soft with flints							
		30				END OF BOREHOLE							
		40											
		50											